

**SDS P4000**

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



**P4000**

Version  
2.0

Revision Date:  
19.02.2018

SDS Number:  
H51230

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : P4000

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Curing chemical

Recommended restrictions on use : For use in industrial installations or professional treatment only.

### 1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.  
Ctra. Nacional II, Km. 706,5  
17457 Riudellots de la Selva  
Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS : msds@roberlo.com

### 1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure, Category 2 H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.

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Chronic aquatic toxicity, Category 2

H411: Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P260 Do not breathe vapours.
- P260 Do not breathe spray.

**Response:**

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.

**Disposal:**

- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate  
Hydrocarbons, C9, aromatics  
xylene (mixture of isomers)  
n-butyl acetate

### Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

#### Hazardous components

| Chemical name                                | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                                         | Concentration<br>(% w/w)  |
|----------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| HDI oligomers, isocyanurate                  | 28182-81-2<br>500-060-2<br>01-2119485796-17                | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335                                                                                                            | <b>&gt;= 30 - &lt; 50</b> |
| Hydrocarbons, C9, aromatics                  | Not Assigned<br>918-668-5<br>01-2119455851-35              | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>STOT SE 3; H335<br>STOT SE 3; H336,<br>EUH066<br>Aquatic Chronic 2;<br>H411                                                 | <b>&gt;= 20 - &lt; 25</b> |
| xylene (mixture of isomers)                  | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | <b>&gt;= 1 - &lt; 10</b>  |
| n-butyl acetate                              | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29  | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                                                  | <b>&gt;= 1 - &lt; 10</b>  |
| Solvent naphtha (petroleum), light arom.     | 64742-95-6<br>265-199-0<br>649-356-00-4                    | Flam. Liq. 3; H226<br>STOT SE 3; H335<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                                            | <b>&gt;= 1 - &lt; 2.5</b> |
| ethylbenzene                                 | 100-41-4<br>202-849-4<br>601-023-00-4<br>01-2119489370-35  | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412                                                         | <b>&gt;= 1 - &lt; 2.5</b> |
| Substances with a workplace exposure limit : |                                                            |                                                                                                                                                                        |                           |
| 2-methoxy-1-methylethyl acetate              | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29  | Flam. Liq. 3; H226                                                                                                                                                     | <b>&gt;= 20 - &lt; 30</b> |

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                         |   |                                                                                                                                                                                                                                                  |
|-------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.                                                          |
| If inhaled              | : | Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical advice.                                                                                                                           |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                           |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                              |
| If swallowed            | : | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |                                                                                                                                                                                                                                             |
|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : | Inhalation may provoke the following symptoms:<br>Headache<br>Vertigo<br>Fatigue<br>Skin contact may provoke the following symptoms:<br>Redness<br>Ingestion may provoke the following symptoms:<br>Abdominal pain<br>Vomiting<br>Diarrhoea |
|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |   |                                                                                                            |
|-----------|---|------------------------------------------------------------------------------------------------------------|
| Treatment | : | In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision. |
|-----------|---|------------------------------------------------------------------------------------------------------------|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                              |   |                                                             |
|------------------------------|---|-------------------------------------------------------------|
| Suitable extinguishing media | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> ) |
|------------------------------|---|-------------------------------------------------------------|

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Dry chemical

Unsuitable extinguishing media : High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

## 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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## 6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 12 Months
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : For the use of this product do not exist particular recommendations apart from that already indicated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                  | CAS-No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Value type (Form of exposure) | Control parameters               | Basis   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|---------|
| HDI oligomers, isocyanurate | 28182-81-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TWA                           | 0.02 mg/m <sup>3</sup> (as -NCO) | GB EH40 |
| Further information         | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |                               |                                  |         |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL                          | 0.07 mg/m <sup>3</sup> (as -NCO) | GB EH40 |
| Further information         | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                                  |         |



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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|------------|
|                                 | <p>people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |      |                      |            |
| 2-methoxy-1-methylethyl acetate | 108-65-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TWA  | 50 ppm<br>275 mg/m3  | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                      |            |
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| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                      |            |
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| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                      |            |
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| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                      |            |
| xylene (mixture of isomers)     | 1330-20-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TWA  | 50 ppm<br>220 mg/m3  | GB EH40    |
| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                      |            |
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| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                      |            |
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| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                      |            |
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| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                      |            |
| n-butyl acetate                 | 123-86-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TWA  | 150 ppm<br>724 mg/m3 | GB EH40    |

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| ethylbenzene                   | 100-41-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TWA  | 100 ppm<br>442 mg/m <sup>3</sup>    | 2000/39/EC |
| Further information            | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                     |            |
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| Further information            | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                     |            |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TWA  | 100 ppm<br>441 mg/m <sup>3</sup>    | GB EH40    |
| Further information            | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                     |            |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | STEL | 125 ppm<br>552 mg/m <sup>3</sup>    | GB EH40    |
| Further information            | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                     |            |
| HDI oligomers,<br>isocyanurate | 28182-81-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TWA  | 0.02 mg/m <sup>3</sup><br>(as -NCO) | GB EH40    |
| Further information            | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagens? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |      |                                     |            |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | STEL | 0.07 mg/m <sup>3</sup><br>(as -NCO) | GB EH40    |
| Further information            | Substances that can cause occupational asthma (also known as asthmagens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                     |            |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|------------|
|                                 | <p>and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagens? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |      |                      |            |
| 2-methoxy-1-methylethyl acetate | 108-65-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TWA  | 50 ppm<br>275 mg/m3  | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                      |            |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STEL | 100 ppm<br>550 mg/m3 | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                      |            |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TWA  | 50 ppm<br>274 mg/m3  | GB EH40    |
| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                      |            |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STEL | 100 ppm<br>548 mg/m3 | GB EH40    |
| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                      |            |
| xylene (mixture of isomers)     | 1330-20-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TWA  | 50 ppm<br>220 mg/m3  | GB EH40    |
| Further information             | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                      |            |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STEL | 100 ppm<br>441 mg/m3 | GB EH40    |
| Further information             | Can be absorbed through skin. The assigned substances are those for which                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                      |            |

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|                     |                                                                                                                                                     |                                                                           |                      |            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------|------------|
|                     |                                                                                                                                                     | there are concerns that dermal absorption will lead to systemic toxicity. |                      |            |
|                     |                                                                                                                                                     | TWA                                                                       | 50 ppm<br>221 mg/m3  | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |                                                                           |                      |            |
|                     |                                                                                                                                                     | STEL                                                                      | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |                                                                           |                      |            |
| n-butyl acetate     | 123-86-4                                                                                                                                            | TWA                                                                       | 150 ppm<br>724 mg/m3 | GB EH40    |
|                     |                                                                                                                                                     | STEL                                                                      | 200 ppm<br>966 mg/m3 | GB EH40    |
| ethylbenzene        | 100-41-4                                                                                                                                            | TWA                                                                       | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |                                                                           |                      |            |
|                     |                                                                                                                                                     | STEL                                                                      | 200 ppm<br>884 mg/m3 | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |                                                                           |                      |            |
|                     |                                                                                                                                                     | TWA                                                                       | 100 ppm<br>441 mg/m3 | GB EH40    |
| Further information | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                                                           |                      |            |
|                     |                                                                                                                                                     | STEL                                                                      | 125 ppm<br>552 mg/m3 | GB EH40    |
| Further information | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                                                           |                      |            |

## Biological occupational exposure limits

| Substance name              | CAS-No.    | Control parameters                             | Sampling time | Basis          |
|-----------------------------|------------|------------------------------------------------|---------------|----------------|
| HDI oligomers, isocyanurate | 28182-81-2 | urinary diamine: 1 µmol/mol creatinine (Urine) | Post task     | GB EH40<br>BAT |

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                          | End Use | Exposure routes | Potential health effects   | Value     |
|-----------------------------------------|---------|-----------------|----------------------------|-----------|
| 2-methoxy-1-methylethyl acetate         | Workers | Inhalation      | Long-term systemic effects | 275 mg/m3 |
| xylene                                  | Workers | Inhalation      | Long-term systemic effects | 77 mg/m3  |
| n-butyl acetate                         | Workers | Inhalation      | Long-term systemic effects | 480 mg/m3 |
| Low boiling point naphtha - unspecified | Workers | Inhalation      | Long-term systemic effects | 608 mg/m3 |
| ethylbenzene                            | Workers | Inhalation      | Long-term systemic effects | 77 mg/m3  |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

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|                          |                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          |                                                                                                                                         |
| Material                 | : Solvent-resistant gloves                                                                                                              |
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Respiratory protection   | : In the case of vapour formation use a respirator with an approved filter.                                                             |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                                                         |
|--------------------------------------------------|---------------------------------------------------------|
| Appearance                                       | : liquid                                                |
| Colour                                           | : colourless                                            |
| Odour                                            | : characteristic                                        |
| Melting point/range                              | : not determined                                        |
| Boiling point/boiling range                      | : not determined                                        |
| Flash point                                      | : 35 °C<br>Method: ISO 1523, closed cup<br>Setaflash    |
| Upper explosion limit / Upper flammability limit | : not determined                                        |
| Lower explosion limit / Lower flammability limit | : not determined                                        |
| Vapour pressure                                  | : not determined                                        |
| Density                                          | : 0.990 g/cm <sup>3</sup> (20 °C)<br>Method: ISO 2811-1 |
| Solubility(ies)                                  |                                                         |
| Water solubility                                 | : immiscible                                            |
| Viscosity                                        |                                                         |
| Viscosity, dynamic                               | : 22 mPa.s (20 °C)<br>Method: ISO 2555                  |
| Viscosity, kinematic                             | : < 20.5 mm <sup>2</sup> /s (40 °C)                     |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No data available

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: 10 - 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

#### **|| HDI oligomers, isocyanurate:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l  
Exposure time: 4 h

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Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

## **Hydrocarbons, C9, aromatics:**

Acute oral toxicity : LD50 Oral (Rat): 8,400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3400 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

## **xylene (mixture of isomers):**

Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

## **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg  
Method: OECD Test Guideline 402

## **Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg  
Method: OECD Test Guideline 402

## **ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg  
Method: OECD Test Guideline 401

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Acute inhalation toxicity : LC50 (Rat): 17.4 mg/l  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg  
Method: OECD Test Guideline 402

## **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 8,532 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 35.7 mg/l  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 5,000 mg/kg  
Method: OECD Test Guideline 402

## **Skin corrosion/irritation**

### **Product:**

Result: Skin irritation

## **Serious eye damage/eye irritation**

### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

## **Respiratory or skin sensitisation**

### **Product:**

Result: May cause sensitisation by skin contact.

## **Germ cell mutagenicity**

### **Product:**

Germ cell mutagenicity-  
Assessment : Based on available data, the classification criteria are not met.

## **Carcinogenicity**

### **Product:**

Carcinogenicity -  
Assessment : Based on available data, the classification criteria are not met.



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## Reproductive toxicity

### Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

## STOT - single exposure

### Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

## STOT - repeated exposure

### Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## Aspiration toxicity

### Product:

May be fatal if swallowed and enters airways.

## Further information

### Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **|| HDI oligomers, isocyanurate:**

Toxicity to algae : EC50 (Algae): 370 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| Hydrocarbons, C9, aromatics:**

Toxicity to fish : LC50 (Fish): 9.22 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 6.14 mg/l  
Exposure time: 48 h

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## **|| xylene (mixture of isomers):**

- Toxicity to fish : LC50 (Fish): 14 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **|| n-butyl acetate:**

- Toxicity to fish : LC50 (Fish): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 32 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 675 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **|| Solvent naphtha (petroleum), light arom.:**

- Toxicity to fish : LC50 (Fish): 9.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 3.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 2.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **|| ethylbenzene:**

- Toxicity to fish : LC50 (Fish): 12 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 33 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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## **2-methoxy-1-methylethyl acetate:**

- Toxicity to fish : LC50 (Fish): 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 408 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **12.2 Persistence and degradability**

### **Product:**

- Biodegradability : Remarks: No data available

## **12.3 Bioaccumulative potential**

### **Product:**

- Bioaccumulation : Remarks: No data available

## **12.4 Mobility in soil**

### **Product:**

- Stability in soil : Remarks: No data available

## **12.5 Results of PBT and vPvB assessment**

### **Product:**

- Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## **12.6 Other adverse effects**

### **Product:**

- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

---

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with

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chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

IMDG : UN 1263

IATA (Cargo) : UN 1263

### 14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL

IMDG : PAINT RELATED MATERIAL

IATA (Cargo) : Paint related material

### 14.3 Transport hazard class(es)

ADR : 3

IMDG : 3

IATA (Cargo) : 3

### 14.4 Packing group

#### ADR

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

#### IMDG

Packing group : III

Labels : 3

EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366

Packing instruction (LQ) : Y344

Packing group : III

Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

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## 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |                                                                                                                                                                                                                                                                                                                                                                               | Quantity 1 | Quantity 2 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| P5c | FLAMMABLE LIQUIDS                                                                                                                                                                                                                                                                                                                                                             | 5,000 t    | 50,000 t   |
| E2  | ENVIRONMENTAL HAZARDS                                                                                                                                                                                                                                                                                                                                                         | 200 t      | 500 t      |
| 34  | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2,500 t    | 25,000 t   |

#### Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: Other information

### Full text of H-Statements

|        |                                                         |
|--------|---------------------------------------------------------|
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |
| H225   | : Highly flammable liquid and vapour.                   |
| H226   | : Flammable liquid and vapour.                          |
| H304   | : May be fatal if swallowed and enters airways.         |
| H312   | : Harmful in contact with skin.                         |
| H315   | : Causes skin irritation.                               |
| H317   | : May cause an allergic skin reaction.                  |

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|      |                                                                                 |
|------|---------------------------------------------------------------------------------|
| H319 | : Causes serious eye irritation.                                                |
| H332 | : Harmful if inhaled.                                                           |
| H335 | : May cause respiratory irritation.                                             |
| H336 | : May cause drowsiness or dizziness.                                            |
| H373 | : May cause damage to organs through prolonged or repeated exposure.            |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H411 | : Toxic to aquatic life with long lasting effects.                              |
| H412 | : Harmful to aquatic life with long lasting effects.                            |

## Full text of other abbreviations

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute Tox.        | : Acute toxicity                                                                                                     |
| Aquatic Chronic   | : Chronic aquatic toxicity                                                                                           |
| Asp. Tox.         | : Aspiration hazard                                                                                                  |
| Eye Irrit.        | : Eye irritation                                                                                                     |
| Flam. Liq.        | : Flammable liquids                                                                                                  |
| Skin Irrit.       | : Skin irritation                                                                                                    |
| Skin Sens.        | : Skin sensitisation                                                                                                 |
| STOT RE           | : Specific target organ toxicity - repeated exposure                                                                 |
| STOT SE           | : Specific target organ toxicity - single exposure                                                                   |
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40           | : UK. EH40 WEL - Workplace Exposure Limits                                                                           |
| GB EH40 BAT       | : UK. Biological monitoring guidance values                                                                          |
| 2000/39/EC / TWA  | : Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL | : Short term exposure limit                                                                                          |
| GB EH40 / TWA     | : Long-term exposure limit (8-hour TWA reference period)                                                             |
| GB EH40 / STEL    | : Short-term exposure limit (15-minute reference period)                                                             |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship;

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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Sources of key data used to compile the Safety Data Sheet : <http://echa.europa.eu>, <http://eur-lex.europa.eu>

### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Skin Irrit. 2     | H315 |
| Skin Sens. 1      | H317 |
| STOT SE 3         | H336 |
| STOT RE 2         | H373 |
| Asp. Tox. 1       | H304 |
| Aquatic Chronic 2 | H411 |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : P6000

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Curing chemical

Recommended restrictions on use : For use in industrial installations or professional treatment only.

### 1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.  
Ctra. Nacional II, Km. 706,5  
17457 Riudellots de la Selva  
Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS : msds@roberlo.com

### 1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated H373: May cause damage to organs through



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exposure, Category 2

prolonged or repeated exposure if inhaled.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements :  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P260 Do not breathe vapours.  
P260 Do not breathe spray.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate  
n-butyl acetate  
xylene (mixture of isomers)  
ethylbenzene

### Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

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## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

#### Hazardous components

| Chemical name                            | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                                         | Concentration<br>(% w/w)   |
|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| HDI oligomers, isocyanurate              | 28182-81-2<br>500-060-2<br>01-2119485796-17                | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335                                                                                                            | <b>&gt;= 30 - &lt; 50</b>  |
| n-butyl acetate                          | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29  | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                                                  | <b>&gt;= 30 - &lt; 50</b>  |
| xylene (mixture of isomers)              | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | <b>&gt;= 10 - &lt; 20</b>  |
| ethylbenzene                             | 100-41-4<br>202-849-4<br>601-023-00-4<br>01-2119489370-35  | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412                                                            | <b>&gt;= 2.5 - &lt; 10</b> |
| Solvent naphtha (petroleum), light arom. | 64742-95-6<br>265-199-0<br>649-356-00-4                    | Flam. Liq. 3; H226<br>STOT SE 3; H335<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411                                                               | <b>&gt;= 1 - &lt; 2.5</b>  |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.

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- Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Inhalation may provoke the following symptoms:  
Headache  
Vertigo  
Fatigue  
Skin contact may provoke the following symptoms:  
Redness  
Ingestion may provoke the following symptoms:  
Abdominal pain  
Vomiting  
Diarrhoea

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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## 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

## 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 12 Months
- Further information on storage stability : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

- Specific use(s) : For the use of this product do not exist particular recommendations apart from that already indicated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                  | CAS-No.    | Value type (Form of exposure) | Control parameters                  | Basis   |
|-----------------------------|------------|-------------------------------|-------------------------------------|---------|
| HDI oligomers, isocyanurate | 28182-81-2 | TWA                           | 0.02 mg/m <sup>3</sup><br>(as -NCO) | GB EH40 |

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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                     |         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|---------|
| Further information | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |      |                                     |         |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 0.07 mg/m <sup>3</sup><br>(as -NCO) | GB EH40 |
| Further information | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                     |         |

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                      |            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|------------|
|                             | employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthma? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma. |      |                      |            |
| n-butyl acetate             | 123-86-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TWA  | 150 ppm<br>724 mg/m3 | GB EH40    |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STEL | 200 ppm<br>966 mg/m3 | GB EH40    |
| xylene (mixture of isomers) | 1330-20-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TWA  | 50 ppm<br>220 mg/m3  | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STEL | 100 ppm<br>441 mg/m3 | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TWA  | 50 ppm<br>221 mg/m3  | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                      |            |
| ethylbenzene                | 100-41-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TWA  | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STEL | 200 ppm<br>884 mg/m3 | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TWA  | 100 ppm<br>441 mg/m3 | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                      |            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STEL | 125 ppm<br>552 mg/m3 | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                      |            |

### Biological occupational exposure limits

| Substance name              | CAS-No.    | Control parameters                                      | Sampling time | Basis          |
|-----------------------------|------------|---------------------------------------------------------|---------------|----------------|
| HDI oligomers, isocyanurate | 28182-81-2 | urinary diamine: 1<br>µmol/mol<br>creatinine<br>(Urine) | Post task     | GB EH40<br>BAT |

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## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                          | End Use | Exposure routes | Potential health effects   | Value     |
|-----------------------------------------|---------|-----------------|----------------------------|-----------|
| n-butyl acetate                         | Workers | Inhalation      | Long-term systemic effects | 480 mg/m3 |
| xylene                                  | Workers | Inhalation      | Long-term systemic effects | 77 mg/m3  |
| ethylbenzene                            | Workers | Inhalation      | Long-term systemic effects | 77 mg/m3  |
| Low boiling point naphtha - unspecified | Workers | Inhalation      | Long-term systemic effects | 608 mg/m3 |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : Solvent-resistant gloves

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

pH : Not applicable

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : 28 °C  
Method: ISO 1523, closed cup  
Setaflash

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower : not determined



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flammability limit

Vapour pressure : not determined

Density : 0.970 g/cm<sup>3</sup> (20 °C)  
Method: ISO 2811-1

Solubility(ies)  
Water solubility : immiscible

Viscosity  
Viscosity, dynamic : 20 mPa.s (20 °C)  
Method: ISO 2555

Viscosity, kinematic : < 20.5 mm<sup>2</sup>/s (40 °C)

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Strong acids and strong bases

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

**Product:**

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- Acute inhalation toxicity : Acute toxicity estimate: 18.03 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

### Components:

#### **HDI oligomers, isocyanurate:**

- Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **n-butyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg  
Method: OECD Test Guideline 402

#### **xylene (mixture of isomers):**

- Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403
- Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

#### **ethylbenzene:**

- Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 17.4 mg/l  
Exposure time: 4 h

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Test atmosphere: gas  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg  
Method: OECD Test Guideline 402

## **|| Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### **Product:**

Result: Skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Severe eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Result: May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

#### **Product:**

Germ cell mutagenicity-  
Assessment : Based on available data, the classification criteria are not met.

### **Carcinogenicity**

#### **Product:**

Carcinogenicity -  
Assessment : Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

#### **Product:**

Reproductive toxicity -  
Assessment : Based on available data, the classification criteria are not met.

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## STOT - single exposure

### Product:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

## STOT - repeated exposure

### Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## Aspiration toxicity

### Product:

May be fatal if swallowed and enters airways.

## Further information

### Product:

Remarks: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **|| HDI oligomers, isocyanurate:**

Toxicity to algae : EC50 (Algae): 370 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| n-butyl acetate:**

Toxicity to fish : LC50 (Fish): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 32 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 675 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| xylene (mixture of isomers):**

Toxicity to fish : LC50 (Fish): 14 mg/l

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Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **|| ethylbenzene:**

Toxicity to fish : LC50 (Fish): 12 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 33 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## **|| Solvent naphtha (petroleum), light arom.:**

Toxicity to fish : LC50 (Fish): 9.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 3.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 2.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **12.2 Persistence and degradability**

#### **Product:**

Biodegradability : Remarks: No data available

### **12.3 Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: No data available

### **12.4 Mobility in soil**

#### **Product:**

Stability in soil : Remarks: No data available

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## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : There is no data available for this product.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

---

## SECTION 14: Transport information

### 14.1 UN number

IMDG : UN 1263  
IATA (Cargo) : UN 1263

### 14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL  
IMDG : PAINT RELATED MATERIAL  
IATA (Cargo) : Paint related material

### 14.3 Transport hazard class(es)

ADR : 3  
IMDG : 3  
IATA (Cargo) : 3

### 14.4 Packing group

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## ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

## IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

## IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |                                                                                                                                                                                                                                                                                                                                                              | Quantity 1 | Quantity 2 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| P5c | FLAMMABLE LIQUIDS                                                                                                                                                                                                                                                                                                                                            | 5,000 t    | 50,000 t   |
| 34  | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in | 2,500 t    | 25,000 t   |

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points (a) to (d)

### Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                                                 |
|------|---------------------------------------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.                                           |
| H226 | : Flammable liquid and vapour.                                                  |
| H304 | : May be fatal if swallowed and enters airways.                                 |
| H312 | : Harmful in contact with skin.                                                 |
| H315 | : Causes skin irritation.                                                       |
| H317 | : May cause an allergic skin reaction.                                          |
| H319 | : Causes serious eye irritation.                                                |
| H332 | : Harmful if inhaled.                                                           |
| H335 | : May cause respiratory irritation.                                             |
| H336 | : May cause drowsiness or dizziness.                                            |
| H373 | : May cause damage to organs through prolonged or repeated exposure.            |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H411 | : Toxic to aquatic life with long lasting effects.                              |
| H412 | : Harmful to aquatic life with long lasting effects.                            |

### Full text of other abbreviations

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute Tox.        | : Acute toxicity                                                                                                     |
| Aquatic Chronic   | : Chronic aquatic toxicity                                                                                           |
| Asp. Tox.         | : Aspiration hazard                                                                                                  |
| Eye Irrit.        | : Eye irritation                                                                                                     |
| Flam. Liq.        | : Flammable liquids                                                                                                  |
| Skin Irrit.       | : Skin irritation                                                                                                    |
| Skin Sens.        | : Skin sensitisation                                                                                                 |
| STOT RE           | : Specific target organ toxicity - repeated exposure                                                                 |
| STOT SE           | : Specific target organ toxicity - single exposure                                                                   |
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40           | : UK. EH40 WEL - Workplace Exposure Limits                                                                           |
| GB EH40 BAT       | : UK. Biological monitoring guidance values                                                                          |
| 2000/39/EC / TWA  | : Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL | : Short term exposure limit                                                                                          |
| GB EH40 / TWA     | : Long-term exposure limit (8-hour TWA reference period)                                                             |
| GB EH40 / STEL    | : Short-term exposure limit (15-minute reference period)                                                             |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive



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Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to : <http://echa.europa.eu>, <http://eur-lex.europa.eu>  
compile the Safety Data Sheet

### Classification of the mixture:

|               |      |
|---------------|------|
| Flam. Liq. 3  | H226 |
| Acute Tox. 4  | H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2  | H319 |
| Skin Sens. 1  | H317 |
| STOT SE 3     | H336 |
| STOT RE 2     | H373 |
| Asp. Tox. 1   | H304 |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |
| Based on product data or assessment |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN

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**P7000**

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Revision Date:  
19.02.2018

SDS Number:  
H51232

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : P7000

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Curing chemical

Recommended restrictions on use : For use in industrial installations or professional treatment only.

### 1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.  
Ctra. Nacional II, Km. 706,5  
17457 Riudellots de la Selva  
Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS : msds@roberlo.com

### 1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|                                                                                      |                                                |
|--------------------------------------------------------------------------------------|------------------------------------------------|
| Flammable liquids, Category 2                                                        | H225: Highly flammable liquid and vapour.      |
| Skin irritation, Category 2                                                          | H315: Causes skin irritation.                  |
| Eye irritation, Category 2                                                           | H319: Causes serious eye irritation.           |
| Skin sensitisation, Category 1                                                       | H317: May cause an allergic skin reaction.     |
| Reproductive toxicity, Category 2                                                    | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.       |
| Specific target organ toxicity - repeated                                            | H373: May cause damage to organs through       |

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exposure, Category 2, Central nervous system

prolonged or repeated exposure if inhaled.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statements :  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P260 Do not breathe vapours.  
P260 Do not breathe spray.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate  
toluene  
xylene (mixture of isomers)  
Solvent naphtha (petroleum), light arom.

### Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

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## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

#### Hazardous components

| Chemical name                            | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                                         | Concentration<br>(% w/w)  |
|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| HDI oligomers, isocyanurate              | 28182-81-2<br>500-060-2<br>01-2119485796-17                | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335                                                                                                            | <b>&gt;= 30 - &lt; 50</b> |
| toluene                                  | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51  | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>STOT RE 2; H373<br>Asp. Tox. 1; H304                                                 | <b>&gt;= 20 - &lt; 30</b> |
| n-butyl acetate                          | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29  | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                                                  | <b>&gt;= 10 - &lt; 20</b> |
| ethyl acetate                            | 141-78-6<br>205-500-4<br>607-022-00-5<br>01-2119475103-46  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                                            | <b>&gt;= 10 - &lt; 20</b> |
| xylene (mixture of isomers)              | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | <b>&gt;= 1 - &lt; 10</b>  |
| Solvent naphtha (petroleum), light arom. | 64742-95-6<br>265-199-0<br>649-356-00-4                    | Flam. Liq. 3; H226<br>STOT SE 3; H335<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411                                                               | <b>&gt;= 1 - &lt; 2.5</b> |

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                         |   |                                                                                                                                                                                                                                                  |
|-------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.                                                          |
| If inhaled              | : | Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical advice.                                                                                                                           |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                           |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                              |
| If swallowed            | : | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |                                                                                                                                                                                                                                             |
|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : | Inhalation may provoke the following symptoms:<br>Headache<br>Vertigo<br>Fatigue<br>Skin contact may provoke the following symptoms:<br>Redness<br>Ingestion may provoke the following symptoms:<br>Abdominal pain<br>Vomiting<br>Diarrhoea |
|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |   |                                                                                                            |
|-----------|---|------------------------------------------------------------------------------------------------------------|
| Treatment | : | In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision. |
|-----------|---|------------------------------------------------------------------------------------------------------------|

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                              |   |                                                             |
|------------------------------|---|-------------------------------------------------------------|
| Suitable extinguishing media | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> ) |
|------------------------------|---|-------------------------------------------------------------|

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Dry chemical

Unsuitable extinguishing media : High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

## 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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## 6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 12 Months
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : For the use of this product do not exist particular recommendations apart from that already indicated.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                  | CAS-No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Value type (Form of exposure) | Control parameters               | Basis   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|---------|
| HDI oligomers, isocyanurate | 28182-81-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TWA                           | 0.02 mg/m <sup>3</sup> (as -NCO) | GB EH40 |
| Further information         | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.</p> |                               |                                  |         |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL                          | 0.07 mg/m <sup>3</sup> (as -NCO) | GB EH40 |
| Further information         | <p>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                                  |         |

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|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------|-------------|
|                             | people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma. |      |                        |             |
| toluene                     | 108-88-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TWA  | 50 ppm<br>192 mg/m3    | 2006/15/EC  |
| Further information         | Indicative, Identifies the possibility of significant uptake through the skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                        |             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 100 ppm<br>384 mg/m3   | 2006/15/EC  |
| Further information         | Indicative, Identifies the possibility of significant uptake through the skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                        |             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TWA  | 50 ppm<br>191 mg/m3    | GB EH40     |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                        |             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 100 ppm<br>384 mg/m3   | GB EH40     |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                        |             |
| n-butyl acetate             | 123-86-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TWA  | 150 ppm<br>724 mg/m3   | GB EH40     |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 200 ppm<br>966 mg/m3   | GB EH40     |
| ethyl acetate               | 141-78-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TWA  | 200 ppm                | GB EH40     |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 400 ppm                | GB EH40     |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 400 ppm<br>1,468 mg/m3 | 2017/164/EU |
| Further information         | Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                        |             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TWA  | 200 ppm<br>734 mg/m3   | 2017/164/EU |
| Further information         | Indicative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                        |             |
| xylene (mixture of isomers) | 1330-20-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TWA  | 50 ppm<br>220 mg/m3    | GB EH40     |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                        |             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STEL | 100 ppm                | GB EH40     |

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|                     |                                                                                                                                                     |      |                      |            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|------------|
|                     |                                                                                                                                                     |      | 441 mg/m3            |            |
| Further information | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |      |                      |            |
|                     |                                                                                                                                                     | TWA  | 50 ppm<br>221 mg/m3  | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |      |                      |            |
|                     |                                                                                                                                                     | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative                                                                       |      |                      |            |

## Biological occupational exposure limits

| Substance name                 | CAS-No.    | Control parameters                                      | Sampling time | Basis          |
|--------------------------------|------------|---------------------------------------------------------|---------------|----------------|
| HDI oligomers,<br>isocyanurate | 28182-81-2 | urinary diamine: 1<br>µmol/mol<br>creatinine<br>(Urine) | Post task     | GB EH40<br>BAT |

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                             | End Use | Exposure routes | Potential health effects   | Value     |
|--------------------------------------------|---------|-----------------|----------------------------|-----------|
| toluene                                    | Workers | Inhalation      | Long-term systemic effects | 147 mg/m3 |
| n-butyl acetate                            | Workers | Inhalation      | Long-term systemic effects | 480 mg/m3 |
| ethyl acetate                              | Workers | Inhalation      | Long-term systemic effects | 734 mg/m3 |
| xylene                                     | Workers | Inhalation      | Long-term systemic effects | 77 mg/m3  |
| Low boiling point<br>naphtha - unspecified | Workers | Inhalation      | Long-term systemic effects | 608 mg/m3 |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : Solvent-resistant gloves

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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|                                                  |   |                                                       |
|--------------------------------------------------|---|-------------------------------------------------------|
| Colour                                           | : | colourless                                            |
| Odour                                            | : | characteristic                                        |
| pH                                               | : | Not applicable                                        |
| Melting point/range                              | : | not determined                                        |
| Boiling point/boiling range                      | : | not determined                                        |
| Flash point                                      | : | 7 °C<br>Method: ISO 1523, closed cup<br>Setaflash     |
| Upper explosion limit / Upper flammability limit | : | not determined                                        |
| Lower explosion limit / Lower flammability limit | : | not determined                                        |
| Vapour pressure                                  | : | not determined                                        |
| Density                                          | : | 0.975 g/cm <sup>3</sup> (20 °C)<br>Method: ISO 2811-1 |
| Solubility(ies)<br>Water solubility              | : | immiscible                                            |
| Viscosity<br>Viscosity, dynamic                  | : | 20 mPa.s (20 °C)<br>Method: ISO 2555                  |
| Viscosity, kinematic                             | : | < 20 mm <sup>2</sup> /s (40 °C)                       |

## 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

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Conditions to avoid : Heat, flames and sparks.

## 10.5 Incompatible materials

Materials to avoid : No data available

## 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: 10 - 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

#### **|| HDI oligomers, isocyanurate:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **|| toluene:**

Acute inhalation toxicity : LC50 (Rat): 28.1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

#### **|| n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg  
Method: OECD Test Guideline 401

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Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg  
Method: OECD Test Guideline 402

## **|| ethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 5,620 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 44 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 18,000 mg/kg  
Method: OECD Test Guideline 402

## **|| xylene (mixture of isomers):**

Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

## **|| Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg  
Method: OECD Test Guideline 402

## **Skin corrosion/irritation**

### **Product:**

Result: Skin irritation

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## Serious eye damage/eye irritation

### Product:

Remarks: Severe eye irritation

## Respiratory or skin sensitisation

### Product:

Result: May cause sensitisation by skin contact.

## Germ cell mutagenicity

### Product:

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

## Carcinogenicity

### Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

## Reproductive toxicity

### Product:

Reproductive toxicity - Assessment : Suspected of damaging the unborn child.

## STOT - single exposure

### Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

## STOT - repeated exposure

### Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## Aspiration toxicity

### Product:

May be fatal if swallowed and enters airways.

## Further information

### Product:

Remarks: Based on available data, the classification criteria are not met.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **|| HDI oligomers, isocyanurate:**

Toxicity to algae : EC50 (Algae): 370 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| n-butyl acetate:**

Toxicity to fish : LC50 (Fish): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 32 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 675 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| ethyl acetate:**

Toxicity to fish : LC50 (Fish): 212 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 164 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| xylene (mixture of isomers):**

Toxicity to fish : LC50 (Fish): 14 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 16 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **|| Solvent naphtha (petroleum), light arom.:**



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|                                                     |   |                                                                                                 |
|-----------------------------------------------------|---|-------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Fish): 9.2 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): 3.2 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to algae                                   | : | EC50 (Algae): 2.9 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201                |

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

## 12.4 Mobility in soil

### Product:

Stability in soil : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

IMDG : UN 1263  
IATA (Cargo) : UN 1263

### 14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL  
IMDG : PAINT RELATED MATERIAL  
IATA (Cargo) : Paint related material

### 14.3 Transport hazard class(es)

ADR : 3  
IMDG : 3  
IATA (Cargo) : 3

### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
**IMDG**  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no  
**IMDG**  
Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

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## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |                                                                                                                                                                                                                                                                                                                                                                                | Quantity 1 | Quantity 2 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| P5c | FLAMMABLE LIQUIDS                                                                                                                                                                                                                                                                                                                                                              | 5,000 t    | 50,000 t   |
| 34  | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2,500 t    | 25,000 t   |

#### Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: Other information

### Full text of H-Statements

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| H225  | : Highly flammable liquid and vapour.                                |
| H226  | : Flammable liquid and vapour.                                       |
| H304  | : May be fatal if swallowed and enters airways.                      |
| H312  | : Harmful in contact with skin.                                      |
| H315  | : Causes skin irritation.                                            |
| H317  | : May cause an allergic skin reaction.                               |
| H319  | : Causes serious eye irritation.                                     |
| H332  | : Harmful if inhaled.                                                |
| H335  | : May cause respiratory irritation.                                  |
| H336  | : May cause drowsiness or dizziness.                                 |
| H361d | : Suspected of damaging the unborn child.                            |
| H373  | : May cause damage to organs through prolonged or repeated exposure. |

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- H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.
- H411 : Toxic to aquatic life with long lasting effects.

## Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Chronic : Chronic aquatic toxicity
- Asp. Tox. : Aspiration hazard
- Eye Irrit. : Eye irritation
- Flam. Liq. : Flammable liquids
- Repr. : Reproductive toxicity
- Skin Irrit. : Skin irritation
- Skin Sens. : Skin sensitisation
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 2006/15/EC : Europe. Indicative occupational exposure limit values
- 2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- GB EH40 BAT : UK. Biological monitoring guidance values
- 2000/39/EC / TWA : Limit Value - eight hours
- 2000/39/EC / STEL : Short term exposure limit
- 2006/15/EC / TWA : Limit Value - eight hours
- 2006/15/EC / STEL : Short term exposure limit
- 2017/164/EU / STEL : Short term exposure limit
- 2017/164/EU / TWA : Limit Value - eight hours
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
- GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic

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Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Sources of key data used to compile the Safety Data Sheet : <http://echa.europa.eu>, <http://eur-lex.europa.eu>

### Classification of the mixture:

|               |       |
|---------------|-------|
| Flam. Liq. 2  | H225  |
| Skin Irrit. 2 | H315  |
| Eye Irrit. 2  | H319  |
| Skin Sens. 1  | H317  |
| Repr. 2       | H361d |
| STOT SE 3     | H336  |
| STOT RE 2     | H373  |
| Asp. Tox. 1   | H304  |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN