

## **1. IDENTIFICATION OF THE PRODUCT AND COMPANY**

1.1 Identification of the preparation: ANTISILICONAS Code: 51267  
1.2 Use of the preparation: Additive for paints.  
1.3 Company:  
ROBERLO, S.A.  
Carretera N-II, Km. 706,5 - E-17457 - Riudellots de la Selva (Girona) - SPAIN  
Phone: +34 972 478060 - Fax: +34 972 477394 - info@roberlo.com – www.roberlo.com  
Responsible for MSDS: dnono@roberlo.com  
1.4 Emergency phone number: +34 91 5620420 (National Institute of Toxicology)

## **2. IDENTIFICATION OF HAZARDS**

Flammable. Harmful by inhalation. Irritating to eyes. Irritating to skin.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances taking part in a percentage higher than the exemption limit and presenting a health and/or environment hazard, and/or with a Communitarian workplace exposure limit:

|          |   |   |
|----------|---|---|
| 50-75 %  | 2-methoxy-1-methylethyl acetate<br>R10   Xi:R36         | EC 203-603-9<br>Index No. 607-195-00-7<br>CAS 108-65-6  |
| 25-50 %  | Xylene (mixture of isomers)<br>R10   Xn:R20/21   Xi:R38 | EC 215-535-7<br>Index No. 601-022-00-9<br>CAS 1330-20-7 |
| 2,5-10 % | 2-phenoxyetanol<br>Xn:R22   Xi:R36                      | EC 204-589-7<br>Index No. 603-098-00-9<br>CAS 122-99-6  |

For more information on dangerous ingredients, see sections 8, 11, 12 and 16.

## **4. FIRST AID MEASURES**

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.1 By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

4.2 By contact with the skin: Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.

4.3 By contact with eyes: Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, until the irritation is reduced. Call a physician immediately.

4.4 By ingestion: In case of accidental swallowing, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

## **5. FIRE-FIGHTING MEASURES**

5.1 Means of Extinction: Extinguishing powder or CO<sub>2</sub>. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 Specific risks: Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, formaldehyde. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

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## **6. ACCIDENTAL SPILLAGE MEASURES**

6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Clean preferably with a biodegradable detergent. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

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## **7. HANDLING AND STORAGE**

7.1 Handling precautions: Comply with the health and safety at work laws.

- General recommendations: Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air and may spread along floors to a considerable distance. Vapours can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Do not smoke. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Use explosion protected equipment. Switch mobile phones off.

- Flash point: 37°C Setaflash

- Flammability range: 1,5 – 9,7 % Volume 25°C

- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

7.2 Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. In order to avoid leaks, the containers, after use, should be closed carefully and placed in a vertical position. Class of store: Class B1. According to. ITC MIE APQ-1, RD 379/2001. Maximum storage period: 12 months. Temperature interval: min: 5°C, max: 32°C.

- Incompatible materials: Keep away from oxidizing agents, acids.

- Conditions to avoid: Heat: Keep away from sources of heat. Light: Avoid direct contact with sunlight. Humidity: Avoid extreme humidity conditions.
- Type of packaging: According to current legislation.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC**

### **8.1 Occupational Exposure Limits (TLV) AGCIH 2006**

|                                 | TWA |       | STEL |       |             | Year |
|---------------------------------|-----|-------|------|-------|-------------|------|
|                                 | ppm | mg/m3 | ppm  | mg/m3 |             |      |
| Xylene (mixture of isomers)     | 100 | 434   | 150  | 651   | A4          | 1996 |
| 2-methoxy-1-methylethyl acetate | 50  | 275   | 100  | 550   | Recommended |      |
| Dermal                          |     |       |      |       |             |      |

A4 - Non classified as carcinogenic in humans.

8.2 Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of vapours. Mask: Mask for gases and vapours (EN141). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour.

- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Face shield: No.

- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be superior to the pretended period of use. The gloves should be immediately replaced when any sign of degradation is noted. Boots: No. Apron: No. Clothing: It is advisable personnel wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre.

8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state: Liquid
- Colour: Colourless
- Odour: Characteristic
- Viscosity: 11 sec. FC4 20°C ASTM D 1200-88
- Specific gravity: 0,95 g/cc at 20°C
- Vapour pressure: 3,8 mmHg at 20°C

## **10. STABILITY AND REACTIVITY**

10.1 Stability: Stable under recommended storage and handling conditions.

10.2 Dangerous reactions: Possible dangerous reaction with oxidizing agents, acids.

10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available.

11.1 Toxicological effects: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

11.2 Dose and lethal concentrations for individual ingredients:

|                                 | DL50 Oral<br>mg/kg |     | DL50 Cutaneous<br>mg/kg |        | CL50 Inhalation<br>mg/l.4hours |
|---------------------------------|--------------------|-----|-------------------------|--------|--------------------------------|
| 2-methoxy-1-methylethyl acetate | 8532               | Rat | >5000                   | Rat    |                                |
| Xylene (mixture of isomers)     | 4300               | Rat | 1700                    | Rabbit | 22 Rat                         |
| 2-phenoxyetanol                 | 1260               | Rat | > 5000                  | Rabbit |                                |

For more information about ingredients dangerous to health, see sections 2 and 8.

## 12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available.

12.1 Spills on the soil: Prevent contamination of soil.

12.2 Spills in water: Do not allow to escape into drains, sewers or water courses.

12.3 Emissions to the atmosphere: Avoid any solvent release into the atmosphere.

- Product VOC: 899 g/l ASTM D-3960

- Aromatic hydrocarbons: 26,2 % Weight

12.4 Ecotoxicological data for individual ingredients:

|                                 | CL50<br>mg/l.96hours |        | CE50<br>mg/l.48hours |         | CI50<br>mg/l.72hours |
|---------------------------------|----------------------|--------|----------------------|---------|----------------------|
| 2-methoxy-1-methylethyl acetate | > 100                | Fishes | 408                  | Daphnia |                      |
| Xylene (mixture of isomers)     | 14                   | Fishes | 16                   | Daphnia |                      |

## 13. CONSIDERATIONS FOR DISPOSAL

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.

13.3 Procedures for neutralising or destroying the product: Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.

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#### **14. TRANSPORT INFORMATION**

PAINT RELATED MATERIAL (FP>23°C)

14.1 Transport by road, Directive 94/55/EC (ADR):

Transport by rail, Directive 96/49/EC (RID):

Class: 3                      Packaging group: III                      UN no. 1263  
Transport document:                      Consignment paper  
Written instructions.

14.2 Transport by sea (IMDG):

Class: 3                      Packaging group: III                      UN no. 1263  
Emergency Sheet (EmS):                      F-E,S\_E  
First Aid Guide (MFAG):                      310,313  
Marine pollutant:                      No  
Transport document:                      Shipping Bill of lading

14.3 Transport by air (ICAO/IATA):

Class: 3                      Packaging group: III                      UN no. 1263  
Transport document:                      Air Bill of lading

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#### **15. INFORMATION ON REGULATIONS**

15.1 EC Labelling                      Xn

This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548/EEC and 1999/45/EC.

R10                      Flammable.

R20/21                      Harmful by inhalation and in contact with skin.

R36/38                      Irritating to eyes and skin.

S23                      Do not breathe vapour/spray.

S36/37                      Wear suitable protective clothing and gloves.

S51                      Use only in well-ventilated areas.

Dangerous ingredients: Xylene (mixture of isomers)

15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC: Not applicable.

15.3 Other regulations: Not available

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#### **16. OTHER INFORMATION**

Intended use: Only for professional use.

Text of R-phrases listed in section 2:

R10                      Flammable.

R22                      Harmful if swallowed.

R36                      Irritating to eyes.

R38                      Irritating to skin.

R20/21                      Harmful by inhalation and in contact with skin.

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with Regulation (EC) No 1907/2006.

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The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.

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