

Version 1.0	MSDS Number: H53363	Revision Date: 13.05.2015
SECTION 1: Identification o	f the substance/mixture and o	f the company/undertaking
1.1 Product identifier		
Trade name	: DICROM DB-404	
1.2 Relevant identified uses of	the substance or mixture and us	es advised against
Use of the Sub- stance/Mixture	: Solvent-borne coatings, Bas	e coating
Recommended restrictions on use	: For use in industrial installati only.	ions or professional treatment
1.3 Details of the supplier of th	e safety data sheet	
Company	: Roberlo s.a. Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva Spain	a
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 127 Flammable liquids, Category 3	72/2008) H226: Flammable liquid and vapour.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single ex- posure, Category 3	H335: May cause respiratory irritation.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single ex-	H336: May cause drowsiness or dizziness.



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posure, Category 3		
Chronic aquatic toxic	ity, Category 3 H412: Hat fects.	rmful to aquatic life with long lasting ef-
Classification (67/54	48/EEC, 1999/45/EC)	
Flammable	R10: Flam	nmable.
Harmful		larmful: danger of serious damage to prolonged exposure through inhalation.
Irritant	R36/37/38 and skin.	3: Irritating to eyes, respiratory system
	R67: Vapo ness.	ours may cause drowsiness and dizzi-
		larmful to aquatic organisms, may cause adverse effects in the aquatic environ-

2.2 Label elements

Labelling (REGULATION () Hazard pictograms	EC) I :	No 1272/2008)	
Signal word	:	Warning	
Hazard statements	:	H226 H373 H319 H335 H315 H336 H412	Flammable liquid and vapour. May cause damage to organs through pro- longed or repeated exposure if inhaled. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting ef- fects.
Precautionary statements	:	Prevention: P260 P260 P264 P271 P280 P284	Do not breathe vapours. Do not breathe spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear res- piratory protection.



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	Response:	
	ately all	DN SKIN (or hair): Take off immedi- contaminated clothing. Rinse skin er/shower.
	P352 Wash wi	th plenty of water.
	air and k a POISC you feel	
	P337 + P313 If eye irri attention	itation persists: Get medical advice/
	Disposal:	
	P501a This mat	lease to the environment. terial and its container must be d of in a safe way.

Hazardous components which must be listed on the label: xylene (mixture of isomers)

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

: Paint

3.2 Mixtures

Chemical nature

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
xylene (mixture of iso- mers)	1330-20-7 215-535-7 01- 2119488216-32	R10 Xn; R20/21 Xi; R38	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 25 - < 30
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 10 - < 15
Solvent naphtha (petro- leum), light arom.	64742-95-6 265-199-0	Xn; R65 Xi; R37	Flam. Liq.3; H226 Asp. Tox.1; H304	>= 2.5 - < 10



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	01- 2119455851-35	N; R51/53 R10 R66 R67	STOT SE3; H335, H336 Aquatic Chronic2; H411		
diacetone alcohol	123-42-2 204-626-7 01- 2119473975-21	Xi; R36	Flam. Liq.3; H226 Eye Irrit.2; H319 STOT SE3; H335	>= 3 - < 10	
ethylbenzene	100-41-4 202-849-4	F; R11 Xn; R20	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 10	
Substances with a workp	place exposure lim	it :			
1-methoxy-2-propanol	107-98-2 203-539-1	R10 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 10 - < 15	

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. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled :	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact :	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed :	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed Treatment : No information available. _ . . _ . . . _ _ . . .



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SECTION 5: Firefighting meas	sures	
5.1 Extinguishing media		
Suitable extinguishing media	: Alcohol-resistant foam Dry chemical	
5.2 Special hazards arising from	the substance or mixture	
Hazardous combustion prod- ucts	: No hazardous combustion pr	oducts are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-	-contained breathing apparatus.
Further information	must not be discharged into a Fire residues and contaminat be disposed of in accordance	ted fire extinguishing water must e with local regulations. f fire, cans should be stored sepa-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
6.2 Environmental precautions	
Environmental precautions	 Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for co	tainment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. : Avoid formation of aerosol. Keep away from sources of igni-Advice on protection against fire and explosion tion - No smoking. Take measures to prevent the build up of electrostatic charge. : Handle in accordance with good industrial hygiene and safety Hygiene measures practice. 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 : No smoking. Keep container tightly closed in a dry and wellareas and containers ventilated place. Storage period : 18 Months Other data : 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	Control parameters	Basis	
		of exposure)			
xylene (mixture of	1330-20-7	TWA	50 ppm	GB EH40	
isomers)			220 mg/m3		
Further information		Can be absorbed through skin. The assigned substances are those for which			
	there are cond	there are concerns that dermal absorption will lead to systemic toxicity.			
xylene (mixture of	1330-20-7	STEL	100 ppm	GB EH40	
isomers)			441 mg/m3		
Further information	Can be absorbed through skin. The assigned substances are those for which				
	there are cond	there are concerns that dermal absorption will lead to systemic toxicity.			



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xylene (mixture of isomers)	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/E0
Further information	Identifies the		ant uptake through the	e skin, Indicative
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 442 mg/m3	2000/39/E0
Further information	Identifies the	possibility of signific	ant uptake through the	e skin, Indicative
1-methoxy-2- propanol	107-98-2	STEL	150 ppm 568 mg/m3	2000/39/E0
Further information	Identifies the	possibility of signific	ant uptake through the	e skin, Indicative
1-methoxy-2- propanol	107-98-2	TWA	100 ppm 375 mg/m3	2000/39/E0
Further information		possibility of signific	ant uptake through the	e skin, Indicative
1-methoxy-2- propanol	107-98-2	TWA	100 ppm 375 mg/m3	GB EH40
Further information		cerns that dermal at	ne assigned substance psorption will lead to sy	
1-methoxy-2- propanol	107-98-2	STEL	150 ppm 560 mg/m3	GB EH40
Further information			ne assigned substance psorption will lead to sy	
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	GB EH40
diacetone alcohol	123-42-2	TWA	50 ppm 241 mg/m3	GB EH40
diacetone alcohol	123-42-2	STEL	75 ppm 362 mg/m3	GB EH40
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/E0
Further information	Identifies the	possibility of signific	ant uptake through the	e skin, Indicative
ethylbenzene	100-41-4	STEL	200 ppm 884 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	ant uptake through the	e skin, Indicative
ethylbenzene	100-41-4	TWA	100 ppm 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.		
	100-41-4	STEL	125 ppm	GB EH40
ethylbenzene			552 mg/m3	

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

xylene :	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 77 mg/m3
n-butyl acetate :	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 480 mg/m3



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Low boiling point naphtha - unspecified	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long	-term systemic effects
4-hydroxy-4-methylpentan-2- one	Value: 608 mg/m3 : End Use: Workers Exposure routes: Inhalation Potential health effects: Long Value: 66.4 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Long Value: 66.4 mg/m3	
ethylbenzene	 End Use: Workers Exposure routes: Inhalation Potential health effects: Long Value: 77 mg/m3 	-term systemic effects
1-methoxy-2-propanol	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long Value: 369 mg/m3	j-term local effects
8.2 Exposure controls	-	
Personal protective equipm	ent	
Eye protection	: Eye wash bottle with pure wate Tightly fitting safety goggles	er
Hand protection		
Remarks	: Solvent-resistant gloves The s to satisfy the specifications of I the standard EN 374 derived fi clean them with soap and wate	EU Directive 89/686/EEC and rom it. Before removing gloves
Skin and body protection	: impervious clothing Choose body protection accord tration of the dangerous substa	ding to the amount and concen- ance at the work place.
Respiratory protection	: In the case of vapour formation proved filter.	n use a respirator with an ap-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid, viscous
Colour	:	blue
Odour	:	characteristic
Melting point/range	:	Not applicable



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Boiling point/boiling range	: not determined	
Flash point	: 29 °C Method: ISO 1523, closed cup Setaflash	
Upper explosion limit	: not determined	
Lower explosion limit	: not determined	
Vapour pressure	: not determined	
Density	: 0.957 g/cm3 (20 °C) Method: ISO 2811-1	
Solubility(ies) Water solubility	: not determined	
Viscosity Viscosity, dynamic	: 241 mPa.s (20 °C) Method: ISO 2555	
Viscosity, kinematic	: > 20.5 mm2/s (40 °C)	
9.2 Other information		
No data available		
SECTION 10: Stability and reactivity		
10.1 Reactivity Stable under recommended storage conditions.		
10.2 Chemical stability No decomposition if stored and applied as directed.		
10.3 Possibility of hazardous reactions		
Hazardous reactions	: No decomposition if used as dire	ected.
	Vapours may form explosive mix	ture with air.
10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	

10.5 Incompatible materials

Materials to avoid

: Oxidizing agents



DICROM DB-404 MSDS Number: H53363 Version 1.0 Revision Date: 13.05.2015 Strong acids and strong bases **10.6 Hazardous decomposition products** Hazardous decomposition : Carbon monoxide products **SECTION 11: Toxicological information** 11.1 Information on toxicological effects Acute toxicity Product: Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg Method: Calculation method Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method **Components:** xylene (mixture of isomers): Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg Method: OECD Test Guideline 401 : LC50 (Rat): 22.08 mg/l Acute inhalation toxicity Exposure time: 4 h 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 : LC50 (Rat): 23.4 mg/l Acute inhalation toxicity Exposure time: 4 h Method: OECD Test Guideline 403 : LD50 (Rabbit): 17,600 mg/kg Acute dermal toxicity 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

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Acute dermal toxicity	: LD50 (Rabbit): 3,160 mg/kg Method: OECD Test Guideline	402
diacetone alcohol: Acute oral toxicity	: LD50 Oral (Rat): 3,002 mg/kg Method: OECD Test Guideline	9 401
Acute inhalation toxicity	: LC50 (Rat): > 7.6 mg/l Exposure time: 4 h Method: OECD Test Guideline	e 403
Acute dermal toxicity	: LD50 (Rabbit): 13,750 mg/kg Method: OECD Test Guideline	e 402
ethylbenzene: Acute oral toxicity	: LD50 Oral (Rat): 3,500 mg/kg Method: OECD Test Guideline	e 401
Acute inhalation toxicity	: LC50 (Rat): 17.4 mg/l Exposure time: 4 h Method: OECD Test Guideline	e 403
Acute dermal toxicity	: LD50 (Rabbit): 15,400 mg/kg Method: OECD Test Guideline	a 402
Skin corrosion/irritation		
Product: Result: Skin irritation		
Serious eye damage/eye ir	ritation	
Product: Remarks: Severe eye irritation	on	
Respiratory or skin sensiti	isation	
Product: Remarks: Based on availabl	e data, the classification criteria are r	not met.
Germ cell mutagenicity		
Product: Germ cell mutagenicity- As- sessment	: Based on available data, the c	lassification criteria are not met.
Carcinogenicity		



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Carcinogenicity - Assess- ment	: Based on available data, the	classification criteria are not met.
Reproductive toxicity		
Product:		
Reproductive toxicity - As- sessment	: 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 respiratory tract irritation., 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:

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

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u>	
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
n butul acotato.	
n-butyl acetate:	
Toxicity to fish	: LC50 (Fish): 18 mg/l
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	Exposure time: 96 h Method: OECD Test Guidelin	e 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): Exposure time: 48 h Method: OECD Test Guidelin	-
Toxicity to algae	: EC50 (Algae): 675 mg/l Exposure time: 72 h Method: OECD Test Guidelin	e 201
Solvent naphtha (petroleum)), light arom.:	
Toxicity to fish	: LC50 (Fish): 9.2 mg/l Exposure time: 96 h Method: OECD Test Guidelin	e 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): Exposure time: 48 h Method: OECD Test Guidelin	-
Toxicity to algae	: EC50 (Algae): 2.9 mg/l Exposure time: 72 h Method: OECD Test Guidelin	e 201
diacetone alcohol:		
Toxicity to fish	: LC50 (Fish): 420 mg/l Exposure time: 96 h Method: OECD Test Guidelin	e 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): Exposure time: 48 h Method: OECD Test Guidelin	-
Toxicity to algae	: EC50 (Algae): > 1,000 mg/l Exposure time: 72 h Method: OECD Test Guidelin	e 201
ethylbenzene:		
Toxicity to fish	: LC50 (Fish): 12 mg/l Exposure time: 96 h Method: OECD Test Guidelin	e 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): Exposure time: 48 h Method: OECD Test Guidelin	-
Toxicity to algae	: EC50 (Algae): 33 mg/l Exposure time: 72 h Method: OECD Test Guidelin	e 201
12.2 Paraistones and degradabili		

12.2 Persistence and degradability

No data available



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2.3 Bioaccumulative potential		
No data available		
2.4 Mobility in soil		
No data available		
I2.5 Results of PBT and vPvB a	ssessment	
Product:		
Assessment	to be either persistent, bioac	ains no components considered cumulative and toxic (PBT), or accumulative (vPvB) at levels of
2.6 Other adverse effects		
Product:		
Additional ecological infor- mation	unprofessional handling or d	nnot be excluded in the event of lisposal., Harmful to aquatic or- rm adverse effects in the aquatic

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. Offer surplus and non-recyclable solutions to a licensed disposal 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

ADR	: UN 1263
IMDG	: UN 1263
ΙΑΤΑ	: UN 1263
14.2 UN proper shipping name	
ADR	: PAINT
IMDG	: PAINT



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ΙΑΤΑ	: Paint	
14.3 Transport hazard class(es)		
ADR	: 3	
IMDG	: 3	
ΙΑΤΑ	: 3	
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 33 : 3	
IMDG Packing group Labels EmS Code	: III : 3 : F-E, <u>S-E</u>	
IATA Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 366 : Y344 : III : Flammable Liquids	
14.5 Environmental hazards		
ADR Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
14.6 Special precautions for use Not applicable	r	
14.7 Transport in bulk according		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.

P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet	2,500 t	25,000 t



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	fuels), (c) gas oils (includ- ing diesel fuels, home heating oils and gas oil blending streams)		
Other regulations	: The product is classified and directives or respective nation	ified and labelled in accordance with EC tive national laws.	

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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.
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
	if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Further information

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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