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

#### **1.1 Product identifier**

Trade name : Biresin<sup>®</sup> U1303 (A)

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

Product use : Tooling system, Product is not intended for consumer use

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

Company name of supplier	:	Sika Limited
		Watchmead Welwyn Garden City
		Hertfordshire. AL7 1BQ
Telephone	:	+44 (0)1707 394444
Telefax	:	+44 (0)1707 329129
E-mail address of person	:	EHS@uk.sika.com
responsible for the SDS		

#### 1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or
	breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

Skin sensitisation, Category 1

### 2.2 Label elements

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

Hazard pictograms	:		
Signal word	:	Danger	•
Hazard statements	:	H317 H332 H334	May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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Precautionary statements :	Precautionary statements : <b>Prevention:</b> P261 P280 P284		ı wear respir-
	Response:		
	P304 + P340 + F	P312 IF INHALED: Remove per air and keep comfortable for bre POISON CENTER/ doctor if you	athing. Call a
	P333 + P313	If skin irritation or rash occurs: G advice/ attention.	Set medical
	P342 + P311	If experiencing respiratory symp POISON CENTER/ doctor.	toms: Call a

#### Hazardous components which must be listed on the label:

4,4'-methylenedi(cyclohexyl isocyanate)

#### **Additional Labelling**

"As from 24 August 2023 adequate training is required before industrial or professional use."

#### 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
4,4'-methylenedi(cyclohexyl iso- cyanate)	Registration number 5124-30-1 225-863-2 01-2119457437-31- XXXX	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H314 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 % Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 0,33 mg/l	>= 5 - < 10

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 2 Remove contact lenses. Keep eye wide open while rinsing. Country GB 00000003681



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	If eye irritation persists, consult a	specialist.
If swallowed	: Do not induce vomiting without me Rinse mouth with water. Do not give milk or alcoholic beve	
	Never give anything by mouth to a	
4.2 Most important symptoms a	d effects, both acute and delayed	
Symptoms	: Asthmatic appearance Respiratory disorder Allergic reactions Headache See Section 11 for more detailed i and symptoms.	information on health effects
Risks	: sensitising effects	
	May cause an allergic skip reactio	n.
	May cause an allergic skin reactio Harmful if inhaled. May cause allergy or asthma sym ties if inhaled.	
4.3 Indication of any immediate	Harmful if inhaled. May cause allergy or asthma sym ties if inhaled.	ptoms or breathing difficul-
<b>4.3 Indication of any immediate</b> Treatment	Harmful if inhaled. May cause allergy or asthma sym	ptoms or breathing difficul-
•	Harmful if inhaled. May cause allergy or asthma sym ties if inhaled. <b>Nedical attention and special treatm</b> : Treat symptomatically.	ptoms or breathing difficul-
Treatment	Harmful if inhaled. May cause allergy or asthma sym ties if inhaled. <b>Nedical attention and special treatm</b> : Treat symptomatically.	ptoms or breathing difficul-
Treatment SECTION 5: Firefighting mean	Harmful if inhaled. May cause allergy or asthma sym ties if inhaled. <b>Nedical attention and special treatm</b> : Treat symptomatically.	ptoms or breathing difficul- nent needed
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media	<ul> <li>Harmful if inhaled. May cause allergy or asthma sympties if inhaled.</li> <li>nedical attention and special treatmeter : Treat symptomatically.</li> <li>ures</li> <li>: In case of fire, use water/water spide/sand/foam/alcohol resistant for extinction.</li> </ul>	ptoms or breathing difficul- nent needed
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from	<ul> <li>Harmful if inhaled. May cause allergy or asthma sympties if inhaled.</li> <li>nedical attention and special treatmeter : Treat symptomatically.</li> <li>ures</li> <li>: In case of fire, use water/water spide/sand/foam/alcohol resistant for extinction.</li> </ul>	ptoms or breathing difficul- nent needed
Treatment SECTION 5: Firefighting mean 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Hazardous combustion prod-	<ul> <li>Harmful if inhaled. May cause allergy or asthma sympties if inhaled.</li> <li>inedical attention and special treatmatical attention attention</li></ul>	ptoms or breathing difficul- nent needed
Treatment SECTION 5: Firefighting mean 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Hazardous combustion prod- ucts	<ul> <li>Harmful if inhaled. May cause allergy or asthma sympties if inhaled.</li> <li>nedical attention and special treatmeter attention and special treatmeter attention.</li> <li>Treat symptomatically.</li> <li>ures</li> <li>In case of fire, use water/water special de/sand/foam/alcohol resistant for extinction.</li> <li>the substance or mixture</li> <li>No hazardous combustion production attention attention.</li> </ul>	ptoms or breathing difficul- ent needed ray/water jet/carbon diox- am/chemical powder for



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SECTION 6: Accidental release	e measures	
6.1 Personal precautions, protect	ive equipment and emergency procedur	es
Personal precautions	: Use personal protective equipment. Deny access to unprotected persons.	
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface water or sanita If the product contaminates rivers and la respective authorities.	
6.3 Methods and material for con	tainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent material ( acid binder, universal binder, sawdust). Keep in suitable, closed containers for	
6.4 Poteronce to other sections		

#### 6.4 Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling	:	<ul> <li>Avoid formation of aerosol.</li> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>For personal protection see section 8.</li> <li>Persons with a history of 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.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Follow standard hygiene measures when handling chemical products</li> </ul>
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety 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, i	ncl	uding any incompatibilities

Requirements for storage :		Keep container tightly close	osed in a	a dry	/ and well-ventilated
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areas and containers		place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Store in accord- ance with local regulations.				
Further information on stor- age stability	: No decomposition if stored and applied	as directed.				
7.3 Specific end use(s) Specific use(s)	: Consult most current local Product Data use.	a Sheet prior to any				

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
4,4'-methylenedi(cyclohexyl isocyanate)	5124-30-1	TWA	0,02 mg/m3 (NCO)	GB EH40
4,4'-methylenedi(cyclohexyl isocyanate)	Further informa asthma (also k can induce a s immunological become hyper- sometimes eve toms. These sy asthma. Not al come hyper-re those who are that can cause substances wh with pre-existin include the dis classified as as mation can be assessments of asthma., Wher stances that ca Where this is r standards of co responsive. Fo COSHH requir sonably practio centrations sho ment is being of employees exp may cause occ consultation w	TWA ation: Substances the nown as asthmage tate of specific airw irritant or other med- responsive, further en in tiny quantities, ymptoms can range I workers who are e sponsive and it is in likely to become hy occupational asthm ich may trigger the ng airway hyper-res ease themselves. T sthmagens or respin found in the HSE p of the evidence for a rever it is reasonable an cause occupation to possible, the prin ontrol to prevent wo or substances that c es that exposure be cable. Activities givin build receive particu considered. Health s ocupational asthma a ith an occupational and level of surveilla	(NCO) nat can cause occ ns and respiratory ay hyper-responsi chanism. Once the exposure to the s may cause respir in severity from a exposed to a sensi npossible to identi per-responsive. na should be distin symptoms of asth ponsiveness, but w he latter substant the latter substant agents implicated is y practicable, expo- nal asthma should mary aim is to app orkers from becom an cause occupate e reduced to as low ng rise to short-ter lar attention when surveillance is app e exposed to a sub ind there should b health professional	supational r sensitisers) iveness via an e airways have substance, ratory symp- a runny nose to itiser will be- ify in advance Substances nguished from ma in people which do not ces are not Further infor- gen? Critical in occupational osure to sub- l be prevented. Ny adequate ing hyper- ional asthma, w as is rea- rm peak con- risk manage- propriate for all ostance which e appropriate al over the



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	assigned only to those substar asthma in the categories show	tation in the list of WELs has been nces which may cause occupational n in Table 1. It should be remem- ot in these tables may cause occu- a web pages

(www.hse.gov.uk/asthma)		ion.
STEL	0,07 mg/m3	GB EH40

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

#### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
4,4'-methylenedi(cyclohexyl isocya- nate)	5124-30-1	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of expo- sure	GB EH40 BAT

#### 8.2 Exposure controls

#### Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

Eye/face protection	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
Skin and body protection	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.
Respiratory protection	<ul> <li>In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as- sessment indicates this is necessary.</li> </ul>



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	organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used. Ensure adequate ventilation, especially in confined areas.	
Environmental exposure contro	bls	
General advice :	Do not flush into surface water or sanitary sewer If the product contaminates rivers and lakes or c respective authorities.	

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state Appearance Colour Odour	:	liquid viscous colourless slight
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
<b>Upper/lower flammability or e</b> Upper explosion limit / Up- per flammability limit	-	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 101 °C Method: closed cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable substance/mixture reacts with water

### Viscosity



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Viscosity, dynamic	:	ca. 9.000 mPa.s (25 °C)	
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)	
<b>Solubility(ies)</b> Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	
Density	:	ca. 1,04 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	

## 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

The product is chemically stable.

# 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid	:	No data available
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### 10.5 Incompatible materials

Materials to avoid : No data available

### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.



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## **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful if inhaled.

#### **Components:**

#### 4,4'-methylenedi(cyclohexyl isocyanate):

Acute oral toxicity	:	LD50 Oral (Rat): 18.200 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): ca. 0,33 mg/l Exposure time: 4 h Test atmosphere: dust/mist
		Acute toxicity estimate: 0,33 mg/l Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rat): > 7.000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.



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#### Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

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 Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

#### Product:

Additional ecological infor-	:	There is no data available for this product.
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mation

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

	ADR	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADR	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.:	3 Transport hazard class(es)		
	ADR	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	4 Packing group		
	ADR	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	IATA (Cargo)	:	Not regulated as a dangerous good
	IATA (Passenger)	:	Not regulated as a dangerous good



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14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user Not applicable

# 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

# **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Ann	JK REACH List of restrictions (Annex 17)			
UK REACH Candidate list of subst concern (SVHC) for Authorisation	tances of very high	:	Not applicable	
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as ame ain)	:	Not applicable		
International Chemical Weapons C Schedules of Toxic Chemicals and	:	Not applicable		
Regulation (EC) No 1005/2009 on plete the ozone layer	:	Not applicable		
UK REACH List of substances subject to authorisation (Annex XIV)		:	Not applicable	
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation		:	Not applicable	
	Control of Major Accident Hazards Regulations		applicable	
	blatile organic compounds : Law on the incentive t (VOCV) Volatile organic comp no VOC duties Directive 2010/75/EU		or volatile organic compounds ds (VOC) content: < 0% w/w 4 November 2010 on industrial	
		ution prevention and control) ds (VOC) content: < 0% w/w		



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If other regulatory information applies that is not already provided elsewhere in the Safety Data								
Sheet, then it is described in this sub	section.							

Health, safety and environ- mental regulation/legislation specific for the substance or mixture:	<ul> <li>Environmental Protection Act 1990 &amp; Subsidiary Regulations Health and Safety at Work Act 1974 &amp; Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH)</li> <li>May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.</li> </ul>
	Regulations (COMAN), and amendments.

# 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### **SECTION 16: Other information**

Full text of H-Statements		
H315	•	Causes skin irritation.
H317	÷	May cause an allergic skin reaction.
H319		Causes serious eye irritation.
H330	:	Fatal if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficul-
100-	•	ties if inhaled.
H335	:	May cause respiratory irritation.
Full text of other abbreviation	ns	
Acute Tox.	:	Acute toxicity
Eye Irrit.	:	Eye irritation
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at
	-	once, which causes the death of 50% (one half) of a group of
		test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in
		air that kills 50% of the test animals during the observation
		period)
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MARPOL		al Convention for the Preventic as modified by the Protocol c				
OEL		Occupational Exposure Limit				
PBT	: Persistent,	Persistent, bioaccumulative and toxic				
PNEC	: Predicted n	Predicted no effect concentration				
REACH	and of the ( istration, Ev	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency				
SVHC	: Substances	Substances of Very High Concern				
vPvB	: Very persis	Very persistent and very bioaccumulative				
Further information						
Classification of the mixture:		Classification p	procedure:			
Acute Tox. 4	H332	Calculation meth	nod			
Resp. Sens. 1	H334	Calculation meth	nod			
Skin Sens. 1	H317	Calculation mether	nod			

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GB / EN