

Revision Date 01.05.2019

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

1.1 Product identifier Trade name

<sup>:</sup> Sikaflex<sup>®</sup>-221

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

Product use : Sealant/adhesive

#### 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 responsible for the SDS	:	EHS@uk.sika.com

#### 1.4 Emergency telephone number

+44 (0)1707 363899 (available during office hours).

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - repeated exposure, Category 2, Central nervous system	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word	:	Danger
Hazard statements	:	H334
		H373

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.



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Precautionary statements :	Prevention:	
	P260	Do not breathe dust/ fume/ gas/ mist/ va- pours/ spray.
	P284	In case of inadequate ventilation wear respir- atory protection.
	Response:	
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
	Disposal:	
	P501	Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

- Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- 4,4'-methylenediphenyl diisocyanate

#### 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.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Urea,N,N''-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4 01-0000016345-72- XXXX	Aquatic Chronic 4; H413	>= 2,5 - < 5
xylene Contains: ethylbenzene <= 25 %	1330-20-7 215-535-7 01-2119488216-32- XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 2,5

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Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aro- matics (2-25%)	Not Assigned 919-446-0 265-185-4 01-2119458049-33- XXXX [corresponding group CAS 64742-82- 1]	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2,5
4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT RE 2; H373	>= 0,1 - < 1

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## **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	:	Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
	If swallowed	:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
4.2	Most important symptoms an	d e	ffects, both acute and delayed
	Symptoms	:	Asthmatic appearance Allergic reactions See Section 11 for more detailed information on health effects and symptoms.
	Risks	:	sensitising effects
			May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled.
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eeded ater jet/carbon diox- iemical powder for
ater jet/carbon diox-
known
breathing apparatus.
es
ry sewer system.
e.g. sand, silica gel, lisposal.

## 7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see



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		section 8). For personal protection see section 8. Persons with a history of skin sensitisation prob ma, allergies, chronic or recurrent respiratory di not be employed in any process in which this m used. Smoking, eating and drinking should be prohibit plication area. Follow standard hygiene measures when handli products	sease should ixture is being ted in the ap-
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygic practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the e	using do not
7.2 Conditions for safe storage,	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-v place. Store in accordance with local regulation	
Further information on stor- age stability	:	No decomposition if stored and applied as direc	ted.
7.3 Specific end use(s) Specific use(s)	:	Consult most current local Product Data Sheet j use.	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 *	
xylene	1330-20-7	STEL	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.			
		TWA	50 ppm 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.			
		TWA	50 ppm 221 mg/m3	2000/39/EC	
Further information	Identifies the po	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC	
Further information	Identifies the po	Identifies the possibility of significant uptake through the skin, Indicative			

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4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m3 (NCO)	GB EH40
Further information	asthmagens and airway hyper-res mechanism. One exposure to the respiratory symp runny nose to as will become hyp those who are lift can cause occup which may trigge airway hyper-res selves. The latter sensitisers., Whe es that can caus is not possible, t to prevent worked can cause occup duced as low as term peak concer management is all employees ex- cause occupatio with an occupati of surveillance., notation in the lis	can cause occupation I respiratory sensitises sponsiveness via an in the the airways have be substance, sometime otoms. These sympton sthma. Not all workers er-responsive and it is kely to become hyper pational asthma shou er the symptoms of as sponsiveness, but wh r substances are not erever it is reasonably the primary aim is to a ers from becoming hy pational asthma, COS is reasonably practice entrations should rece being considered. He cosed or liable to be nal asthma and there onal health profession Capable of causing o st of WELs has been e occupational asthma	ers) can induce a sta mmunological, irritar become hyper-respo es even to tiny quant ms can range in sev s who are exposed to s impossible to ident -responsive. 54 Sul Id be distinguished f sthma in people with ich do not include th classified asthmage y practicable, exposi- a should be preven apply adequate stan- per-responsive. For SHH requires that ex- cable. Activities givin eve particular attenti atth surveillance is a exposed to a substa- should be appropria- nal over the degree occupational asthma assigned only to tho	te of specific nt or other nsive, further ities, may cause erity from a o a sensitiser tify in advance ostances that from substances or respiratory ure to substanc- ted. Where this dards of control substances that posure be re- g rise to short- ion when risk appropriate for ance which may ate consultation of risk and level ., The 'Sen'
	which may caus	STEL	0,07 mg/m3 (NCO)	GB EH40
Further information	asthmagens and airway hyper-res mechanism. One exposure to the respiratory symp runny nose to as will become hyp those who are lift can cause occup which may trigge airway hyper-res selves. The latter sensitisers., Whe es that can caus is not possible, t to prevent worke can cause occup duced as low as term peak conce management is all employees ex cause occupatio with an occupati of surveillance., notation in the lis	can cause occupatio I respiratory sensitise sponsiveness via an in ce the airways have be substance, sometime toms. These sympton sthma. Not all workers er-responsive and it is kely to become hyper bational asthma shou er the symptoms of as sponsiveness, but wh r substances are not erever it is reasonably e occupational asthm he primary aim is to a ers from becoming hy bational asthma, COS is reasonably practice entrations should rece being considered. He copsed or liable to be nal asthma and there onal health profession Capable of causing o st of WELs has been e occupational asthm	anal asthma (also knowns) ers) can induce a sta mmunological, irritar become hyper-respo es even to tiny quant ms can range in sev s who are exposed to s impossible to ident -responsive. 54 Sul ld be distinguished f sthma in people with ich do not include th classified asthmage y practicable, expose a should be preven apply adequate stan- per-responsive. For SHH requires that ex- cable. Activities givin eive particular attenti atth surveillance is a exposed to a substa- should be appropria- nal over the degree occupational asthma assigned only to tho	te of specific nt or other nsive, further ities, may cause erity from a o a sensitiser tify in advance ostances that from substances or respiratory ure to substanc- ted. Where this dards of control substances that posure be re- g rise to short- ion when risk appropriate for ance which may ate consultation of risk and level ., The 'Sen'



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\*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
xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole Cre- atinine (Urine)	After shift	GB EH40 BAT
4,4'-methylenediphenyl diisocyanate	101-68-8	urinary diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	Post task	GB EH40 BAT

#### 8.2 Exposure controls

### Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	:	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
		Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (0,4 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	:	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. 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.



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#### **Environmental exposure controls**

General advice

: Do not flush into surface water or sanitary sewer system.

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

### 9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	various
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	76 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	0,01 hPa
Relative vapour density	:	No data available
Density	:	ca. 1,26 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available

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Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	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	:	Stable under recommended storage conditions.
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#### 10.4 Conditions to avoid

Conditions to avoid	:	Avoid moisture.
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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.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### **Components:**

xylene:		
Acute oral toxicity	:	LD50 Oral (Rat): 3.523 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 1.700 mg/kg

### 4,4'-methylenediphenyl diisocyanate:

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Acute inhalation toxicity	: Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Expert judgement	
Skin corrosion/irritation Not classified based on availa	able information.	
Components:		
Hydrocarbons, C9-C12, n-a	lkanes, isoalkanes, cyclics, aromatics (2-2	5%):
Assessment	: Repeated exposure may cause skin dry	ness or cracking.
Serious eye damage/eye irr Not classified based on availa		
Respiratory or skin sensitis	sation	
Skin sensitisation Not classified based on availa	able information.	
<b>Respiratory sensitisation</b> May cause allergy or asthma	symptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity Not classified based on availa	able information.	
<b>Carcinogenicity</b> Not classified based on availa	able information.	
<b>Reproductive toxicity</b> Not classified based on availa	able information.	
STOT - single exposure Not classified based on availa	able information.	
STOT - repeated exposure		
May cause damage to organs inhaled.	s (Central nervous system) through prolonged	l or repeated exposure if
Aspiration toxicity		
Not classified based on availa	able information.	

## Components:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:				
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h		



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Toxicity to algae :	EC50 (Raphidocelis subcapitata (freshwater gre 100 mg/l Exposure time: 72 h	en alga)): >
xylene <b>:</b> Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 3, Exposure time: 96 h	3 mg/l
<ul> <li>12.2 Persistence and degradability</li> <li>No data available</li> <li>12.3 Bioaccumulative potential</li> </ul>		
No data available <b>12.4 Mobility in soil</b> No data available		
12.5 Results of PBT and vPvB asse	ssment	
Product: Assessment :	This substance/mixture contains no components to be either persistent, bioaccumulative and toxic very persistent and very bioaccumulative (vPvB) 0.1% or higher	c (PBT), or
12.6 Other adverse effects		
<b>Product:</b> Additional ecological infor- : mation	There is no data available for this product.	

## **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.
European Waste Catalogue	:	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

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Contaminated packaging

: 15 01 10\* packaging containing residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

### 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

International Chemical Weapo Schedules of Toxic Chemical	· · · · ·	:	Not applicable
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).		
REACH - List of substances s (Annex XIV)	REACH - List of substances subject to authorisation (Annex XIV)		
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer		:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants		:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals		:	Not applicable
REACH Information: All substances contain - registered by our ups			

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		- registered by us, and/or - excluded from the regulation, and/or - exempted from the registration.	
Seveso III: Directive 2012/18/E jor-accident hazards involving		of the European Parliament and of the Counc ngerous substances. Not applicable	cil on the control of ma-
Volatile organic compounds	:	Law on the incentive tax for volatile organic (VOCV) Volatile organic compounds (VOC) content:	•
		Directive 2010/75/EU of 24 November 2010 emissions (integrated pollution prevention a Volatile organic compounds (VOC) content: 3,42 %, 43,04 g/l VOC content excluding water	ind control)

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

Health, safety and environ- mental regulation/legislation specific for the substance or mixture:	H C	nvironmental Protection Act 1990 & Subsidiary Regulations ealth and Safety at Work Act 1974 & Subsidiary Regulations ontrol of Substances Hazardous to Health Regulations COSHH)
		ay be subject to the Control of Major Accident Hazards egulations (COMAH), and amendments.

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

#### 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

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.
H334 :	May cause allergy or asthma symptoms or breathing difficul-
	ties if inhaled.
H335 :	May cause respiratory irritation.
H336 :	May cause drowsiness or dizziness.



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H351	:	Suspected of causing cancer.	
H372	:	Causes damage to organs through prolong exposure if inhaled.	ed or repeated
H373	:	May cause damage to organs through prolo exposure.	onged or repeated
H373	:	May cause damage to organs through proto exposure if inhaled.	onged or repeated
H411	:	Toxic to aquatic life with long lasting effects	ð.
H413	:	May cause long lasting harmful effects to a	
Full text of other abbreviatio	ns		
Acute Tox.	:	Acute toxicity	
Aquatic Chronic	:	Long-term (chronic) aquatic hazard	
Asp. Tox.	:	Aspiration hazard	
Carc.	:	Carcinogenicity	
Eye Irrit.	:	Eye irritation	
Flam. Liq.	:	Flammable liquids	
Resp. Sens.	:	Respiratory sensitisation	
Skin Irrit.	:	Skin irritation	
Skin Sens.	:	Skin sensitisation	
STOT RE	:	Specific target organ toxicity - repeated exp	osure
STOT SE	:	Specific target organ toxicity - single exposi-	ure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC	establishing a first
		list of indicative occupational exposure limit	t values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limi	its
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 refe	rence period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute refere	
ADR	:	European Agreement concerning the Intern	
		Dangerous Goods by Road	5
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 mater	
	•	once, which causes the death of 50% (one	
		test animals)	
LC50	•	Median lethal concentration (concentrations	s of the chemical in
	•	air that kills 50% of the test animals during	
		period)	
MARPOL	•	International Convention for the Prevention	of Pollution from
	•	Ships, 1973 as modified by the Protocol of	
OEL		Occupational Exposure Limit	1010
PBT	:	Persistent, bioaccumulative and toxic	
PNEC	:	Predicted no effect concentration	
REACH	÷	Regulation (EC) No 1907/2006 of the Europ	oean Parliament
	•	and of the Council of 18 December 2006 co	
		istration, Evaluation, Authorisation and Res	
		cals (REACH), establishing a European Ch	
SVHC		Substances of Very High Concern	Sector Goney
vPvB	:	Very persistent and very bioaccumulative	
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Further information				
Classification of the mixture:		Classification procedure:		
Resp. Sens. 1	H334	Calculation method		
STOT RE 2	H373	Calculation method		

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