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

1.1 Product identifier

Trade name : Icosit[®] KC 340/4 (B)

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

Product use : Polyuretha

: Polyurethane coating, 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 responsible for the SDS	:	EHS@uk.sika.com

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. Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2 H319: Causes serious eye irritation. 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. Carcinogenicity, Category 2 H351: Suspected of causing cancer. Specific target organ toxicity - single ex-H335: May cause respiratory irritation. posure, Category 3, Respiratory system Specific target organ toxicity - repeated H373: May cause damage to organs through proexposure, Category 2 longed or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Date of last issue: 12.05.2023 Version 8.0 Print Date 24.05.2023 Revision Date: 24.05.2023 Hazard pictograms 1 Signal word Dangei Hazard statements Causes skin irritation. H315 May cause an allergic skin reaction. H317 H319 Causes serious eye irritation. Harmful if inhaled. H332 May cause allergy or asthma symptoms or H334 breathing difficulties if inhaled. May cause respiratory irritation. H335 Suspected of causing cancer. H351 May cause damage to organs through pro-H373 longed or repeated exposure. **Prevention:** Precautionary statements P201 Obtain special instructions before use. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

1,3-Butanediol, polymer with 1,1'-methylenebis[isocyanatobenzene], 2,2'-oxybis[ethanol] and 1,2-propanediol

Diphenylmethanediisocyanate, isomeres and homologues

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.



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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
1,3-Butanediol, polymer with 1,1'- meth- ylenebis[isocyanatobenzene], 2,2'-oxybis[ethanol] and 1,2- propanediol	155662-82-1 Not Assigned 01-2119480402-45- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 60 - < 80
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9 Not Assigned	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 	>= 40 - < 60

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	C	ove out of dangerous area. onsult a physician. how this safety data sheet to the doctor in attendance.		
If inhaled		ove to fresh air. onsult a physician after significant exposure.		
In case of skin contact	W	ake off contaminated clothing and shoes immediately. /ash off with soap and plenty of water. symptoms persist, call a physician.		
In case of eye contact	Re Ke	nmediately flush eye(s) with plenty of water. emove contact lenses. eep eye wide open while rinsing. eye irritation persists, consult a specialist.		
If swallowed	Ri De	o not induce vomiting without medical advice. inse mouth with water. o not give milk or alcoholic beverages. ever give anything by mouth to an unconscious person.		
4.2 Most important symptoms a	d effe	ects, both acute and delayed		
Symptoms	: As Ci Ri Al Ei Hi Di Se	sthmatic appearance ough espiratory disorder llergic reactions xcessive lachrymation rythema eadache ermatitis ee Section 11 for more detailed information on health effects and symptoms.		
Risks	Se M C: Hi M tie M St	ritant effects ensitising effects auses skin irritation. ay cause an allergic skin reaction. auses serious eye irritation. armful if inhaled. ay cause allergy or asthma symptoms or breathing difficul- es if inhaled. ay cause respiratory irritation. uspected of causing cancer. ay cause damage to organs through prolonged or repeated kposure.		



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4.3 Indication of any immediate m	edical attention and special treatment ne	eded
Treatment	Treat symptomatically.	
SECTION 5: Firefighting measu	ires	
5.1 Extinguishing media		
Suitable extinguishing media	 In case of fire, use water/water spray/wa ide/sand/foam/alcohol resistant foam/che extinction. 	
5.2 Special hazards arising from t	he substance or mixture	
Hazardous combustion prod- ucts	No hazardous combustion products are l	known
5.3 Advice for firefighters		
Special protective equipment for firefighters	In the event of fire, wear self-contained b	preathing apparatus.
Further information	Standard procedure for chemical fires.	
SECTION 6: Accidental release	measures	
6.1 Personal precautions, protecti	ve equipment and emergency procedure	s
Personal precautions	: Use personal protective equipment.	-
	Deny access to unprotected persons.	

6.2 Environmental precautions

respective authorities.	Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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6.3 Methods and material for containment 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 personal protection see section 8.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling		
Advice on safe handling	 Avoid formation of aerosol. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. 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. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical products 	
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, in	cluding any incompatibilities	
Requirements for storage areas and containers	Keep container tightly closed in a dry and well-ventilated 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)	 Cleaning with aprotic polar solvents must be avoided. Consult most current local Product Data Sheet prior to any use. 	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	
1,3-Butanediol, polymer with 1,1'- methylenebis[isocyanatobenzene], 2,2'- oxybis[ethanol] and 1,2-propanediol	155662-82-1	TWA	0,02 mg/m3 (NCO)	GB EH40

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Further information: 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 in 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. 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 as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., 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 hyperresponsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to 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 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages

(www.hse.gov.uk/asthma) provide further information

		STEL	0,07 mg/m3 (NCO)	GB EH40	
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0,02 mg/m3 (NCO)	GB EH40	
	Further information	ation: Capable of ca	using occupation	al asthma.	
		STEL	0,07 mg/m3 (NCO)	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-	Sampling time	Basis
		ters		
1,3-Butanediol, polymer with 1,1'- methylenebis[isocyanatobenzene], 2,2'-oxybis[ethanol] and 1,2-	155662-82-1	isocyanate- derived diamine (Isocyanates): 1	At the end of the period of expo- sure	GB EH40 BAT



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propanediol		µmol/mol creati- nine (Urine)		
Diphenylmethanediisocyanate, iso- meres and homologues	9016-87-9	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 Hand protection	 Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water 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	 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 working 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 assessment 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 - Methods for determining inhalation exposure). This applies in particular 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.



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Environmental exposure con	tro	ls	
General advice	:	Do not flush into surface water or sanitary se If the product contaminates rivers and lakes respective authorities.	
CTION 9: Physical and cher	nic	al properties	
Information on basic physical	an	d chemical properties	
Physical state	:	liquid	
Colour	:	brown	
Odour	:	slight	
Melting point/range / Freezing point	:	No data available	
Boiling point/boiling range	:	No data available	
Flammability (solid, gas)	:	No data available	
Upper/lower flammability or e	exp	losive limits	
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 is non-soluble (in water)	
Viscosity			
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)	
Solubility(ies)			
Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	
Density		ca. 1,2 g/cm3 (20 °C)	

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Relative vapour density	: No data	available	
Particle characteristics	: No data	available	
9.2 Other information			
No data available			
SECTION 10: Stability and r	activity		
10.1 Reactivity			
No dangerous reaction know	n under condit	ions of normal use.	
10.2 Chemical stability			
The product is chemically st	ble.		
10.3 Possibility of hazardous r	actions		
Hazardous reactions	: No haza	ards to be specially mentioned.	
10.4 Conditions to avoid			
Conditions to avoid	: No data	available	
10.5 Incompatible materials			
Materials to avoid	: No data	available	
10.6 Hazardous decomposition	products		
No decomposition if stored a	nd applied as o	directed.	
SECTION 11: Toxicological	oformation		
11.1 Information on hazard cla	ses as define	d in Regulation (EC) No 1272	2/2008
Acute toxicity Harmful if inhaled.			
<u>Components:</u>			
Diphenylmethanediisocya	ate. isomeres	and homologues:	
p			

Acute inhalation toxicity	:	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is moderately toxic after short term inhalation.
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Acute dermal toxicity	: LD50 Dermal (Rabbit): > 9.400 mg/kg	
Skin corrosion/irritation		
Causes skin irritation.		
Serious eye damage/eye i	rritation	

Causes serious eye irritation.

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

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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.



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SECTION 12: Ecological information

12.1 Toxicity

Components:	
Diphenylmethanediisocya	nate, isomeres and homologues:
Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 1.000 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l Exposure time: 72 h

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

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Product:

Assessment	
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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.
mation		

SECTION 13: Disposal considerations

13.1 Waste treatment methods



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Product	:	The generation of waste should be avoided wherever possible. Empty containers or liners may retain some This material and its container must be disp way. Dispose of surplus and non-recyclable prod waste disposal contractor. Disposal of this product, solutions and any at all times comply with the requirements of protection and waste disposal legislation ar local authority requirements. Avoid dispersal of spilled material and rund soil, waterways, drains and sewers.	e product residues. bosed of in a safe ducts via a licensed by-products should f environmental nd any regional
European Waste Catalogue	:	08 05 01* waste isocyanates	
Contaminated packaging	:	15 01 10* packaging containing residues of by dangerous substances	f or contaminated

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	3 Transport hazard class(es)		
	ADR	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	IATA	:	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 (Bassonger)		Not regulated as a dangerous good
	IATA (Passenger)	·	Not regulated as a daligerous 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 (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Diphenylmethanediisocyanate, iso- meres and homologues (Number on list 56)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
Regulation (EC) No 1005/2009 on substances that de- 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	Not applicable
2015 (COMAH) Volatile organic compounds : Law on the incentive t (VOCV) no VOC duties	tax for volatile organic compounds
	of 24 November 2010 on industrial pollution prevention and control)



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If other regulatory information appli Sheet, then it is described in this su	es that is not already provided elsew ubsection.	where in the Safety Data
	Environmental Protection Act 1990 & Health and Safety at Work Act 1974	

mental regulation/legislation	Health and Safety at Work Act 1974 & Subsidiary Regulations
specific for the substance or	Control of Substances Hazardous to Health Regulations
mixture:	(COSHH)
	May be subject to the Control of Major Accident Hazards
	Regulations (COMAH), 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.
H332	÷	Harmful if inhaled.
H334	÷	May cause allergy or asthma symptoms or breathing difficul-
	-	ties if inhaled.
H335		May cause respiratory irritation.
H351	÷	Suspected of causing cancer.
H373		May cause damage to organs through prolonged or repeated
	•	exposure.
H373		May cause damage to organs through prolonged or repeated
	•	exposure if inhaled.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
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
ΙΑΤΑ	:	International Air Transport Association
		•

Full text of H-Statements



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IMDG	Internatio	onal Maritime Code for Dangerous Go	ods
LD50	Median I	ethal dosis (the amount of a material,	given all at
	once, wł test anin	nich causes the death of 50% (one half nals)) of a group of
LC50	Median I	ethal concentration (concentrations of	the chemical in
		ills 50% of the test animals during the	
MARPOL	Internation	onal Convention for the Prevention of I	Pollution from
	Ships, 1	973 as modified by the Protocol of 197	8
OEL	Occupat	ional Exposure Limit	
PBT	Persiste	nt, bioaccumulative and toxic	
PNEC	Predicte	d no effect concentration	
REACH		on (EC) No 1907/2006 of the European le Council of 18 December 2006 conce	
	istration,	Evaluation, Authorisation and Restrict ACH), establishing a European Chemi	ion of Chemi-
SVHC	Substan	ces of Very High Concern	
vPvB		sistent and very bioaccumulative	

Further information

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	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