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

1.1 Product identifier

Trade name

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

Product use : Epoxy coating

1.3 Details of the supplier of the safety data sheet

Company name of supplier	: Sika Poland Spółka z o.o.
	Karczunkowska 89
	02-871 Warszawa
Telephone	: +48 22 27 28 700
Telefax	: +48 22 27 28 800
E-mail address of person	: EHS@pl.sika.com
responsible for the SDS	

1.4 Emergency telephone number

112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting ef- fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Danger



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Hazard statements	:	H302 H314 H317 H412	Harmful if swallowed. Causes severe skin burns and May cause an allergic skin read Harmful to aquatic life with long fects.	ction.
Precautionary statements	:	Prevention: P261 P273 P280	Avoid breathing mist or vapour Avoid release to the environme Wear protective gloves/ protect eye protection/ face protection.	ent. tive clothing/
		P304 + P340 + F	 P353 IF ON SKIN (or hair): Tal ately all contaminated clothing. with water. P310 IF INHALED: Remove per air and keep comfortable for br mediately call a POISON CEN P338 + P310 IF IN EYES: Ring with water for several minutes. tact lenses, if present and easy tinue rinsing. Immediately call a CENTER/ doctor. 	Rinse skin erson to fresh eathing. Im- TER/ doctor. se cautiously Remove con- to do. Con-

Hazardous components which must be listed on the label:

1,3-Cyclohexanedimethanamine N-benzylethylenediamine

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)
1,3-Cyclohexanedimethanamine	Registration number 2579-20-6 219-941-5 01-2119543741-41- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity esti- mate	>= 40 - < 60
		Acute oral toxicity: 780 mg/kg Acute dermal toxicity: 1.700 mg/kg	
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity:	>= 10 - < 20
		1.620 mg/kg Acute inhalation tox- icity (dust/mist): 4,178 mg/l	
N-benzylethylenediamine	4152-09-4 223-984-5 01-2120822346-58- XXXX	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 10 - < 20
		Acute toxicity esti- mate Acute oral toxicity: 300,03 mg/kg	

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measu	ires	S
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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.
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 and	d e	effects, both acute and delayed
Symptoms	:	Gastrointestinal discomfort Allergic reactions Dermatitis See Section 11 for more detailed information on health effects and symptoms.
Risks	:	Health injuries may be delayed. corrosive effects sensitising effects
		Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Causes severe burns.
4.3 Indication of any immediate n	nec	dical attention and special treatment needed

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat	symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod-	:	No hazardous combustion products are known
ucts		

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Deny access to unprotected persons.	
6.2 Environmental precautions			

Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

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.

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).
	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 asth-
	ma, allergies, chronic or recurrent respiratory disease should

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		not be employed in any process in which this r used. Smoking, eating and drinking should be prohib plication area. Follow standard hygiene measures when hand products	bited in the ap-
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection	۱.
Hygiene measures	:	Handle in accordance with good industrial hyg practice. When using do not eat or drink. Whe smoke. Wash hands before breaks and at the	n 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 place. Containers which are opened must be o sealed and kept upright to prevent leakage. St ance with local regulations.	carefully re-
Further information on stor- age stability	:	No decomposition if stored and applied as dire	ected.
7.3 Specific end use(s)			
Specific use(s)	:	Consult most current local Product Data Shee use.	t 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 *
benzyl alcohol	100-51-6	NDS	240 mg/m3	PL OEL

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

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
	Wear eye/face protection.

Hand protection	: Chemical-resistant, impervious gloves complying with an ap-
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	proved standard must be worn at all times when chemical products. Reference number EN 374. If facturer specifications.	
	Suitable for short time use or protection against 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.	splashes:
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN long-sleeved working clothing, long trousers). Ru and protective boots are additionally recommend and stirring work.	ubber aprons
Respiratory protection :	In case of inadequate ventilation wear respirator Respirator selection must be based on known or exposure levels, the hazards of the product and ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 p Ensure adequate ventilation. This can be achiev exhaust extraction or by general ventilation. (EN ods for determining inhalation exposure). This ap ticular to the mixing / stirring area. In case this is to keep the concentrations under the occupation limits then respiration protection measures must	anticipated the safe work- opm ed by local 689 - Meth- oplies in par- not sufficent al exposure
Environmental exposure contro	bls	
General advice :	Do not flush into surface water or sanitary sewer If the product contaminates rivers and lakes or d respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Appearance Colour	:	liquid viscous liquid colourless
Odour	:	amine-like
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available

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Flammability (solid, gas)		No data available	
Upper/lower flammability or	-		
Upper explosion limit / Up- per flammability limit	• :	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Flash point	:	> 101 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
		No data available	
Decomposition temperature	:	No data available	
рН	:	ca. 11 Concentration: 50 %	
Viscosity			
Viscosity, dynamic	:	ca. 20 mPa.s (20 °C)	
Viscosity, kinematic	:	< 20,5 mm2/s (40 °C)	
Solubility(ies)			
Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	23 hPa	
		23 hPa	
Density	:	ca. 0,98 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	

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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.

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 and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Components:

1,3-Cyclohexanedimethanamine:

Acute oral toxicity :	LD50 Oral (Rat): 780 mg/kg
	Acute toxicity estimate: 780 mg/kg Method: Calculation method
Acute dermal toxicity :	LD50 Dermal (Rat): 1.700 mg/kg
	Acute toxicity estimate: 1.700 mg/kg Method: Calculation method
benzyl alcohol:	
Acute oral toxicity :	LD50 Oral (Rat): 1.620 mg/kg
	Acute toxicity estimate: 1.620 mg/kg

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	Method: Calculation method	
Acute inhalation toxicity	: LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
	Acute toxicity estimate: 4,178 mg/l Test atmosphere: dust/mist Method: Calculation method	
N-benzylethylenediamine:		
Acute oral toxicity	: LD50 Oral (Rat): > 300 - < 2.000 mg/kg	
	Acute toxicity estimate: 300,03 mg/kg Method: Calculation method	
Skin corrosion/irritation Causes severe burns.		
Serious eye damage/eye irrita Causes serious eye damage.	ition	
Respiratory or skin sensitisat	ion	
Skin sensitisation May cause an allergic skin reac	tion.	
Respiratory sensitisation Not classified based on availabl	e information.	
Germ cell mutagenicity Not classified based on availabl	e information.	
Carcinogenicity Not classified based on availabl	e information.	
Reproductive toxicity Not classified based on availabl	e information.	
STOT - single exposure Not classified based on availabl	e information.	
STOT - repeated exposure Not classified based on availabl	e information.	
Aspiration toxicity Not classified based on availabl	e information.	
11.2 Information on other hazards		
Endocrine disrupting propert	ies	
<u>Product:</u> Assessment	The substance/mixture does not contain com	
Country PL 10000034383	ered to have endocrine disrupting properties a	according to

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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

benzyl alcohol:	
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Toxicity to fish	:	LC50 (Fish): > 100 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
N-benzylethylenediamine:		
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (calculated) (Daphnia magna (Water flea)): 10 - 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 10 - 100 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

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 consid-
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		ered to have endocrine disrupting proper REACH Article 57(f) or Commission Dele (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	gated regulation
12.7 Other adverse effects			
Product: Additional ecological infor- mation	:	An environmental hazard cannot be exclu unprofessional handling or disposal. Harmful to aquatic life with long lasting ef	

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 01 11* waste paint and varnish containing organic solvents or other dangerous substances
Contaminated packaging	 15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	UN 2735
IMDG	:	UN 2735
ΙΑΤΑ	:	UN 2735
14.2 UN proper shipping name		
ADR	:	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, N-benzylethylenediamine)
IMDG	:	AMINES, LIQUID, CORROSIVE, N.O.S.
Onumber DL 40000004000		40.1

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ΙΑΤΑ

ADR

IMDG

ΙΑΤΑ

ADR

Labels

IMDG

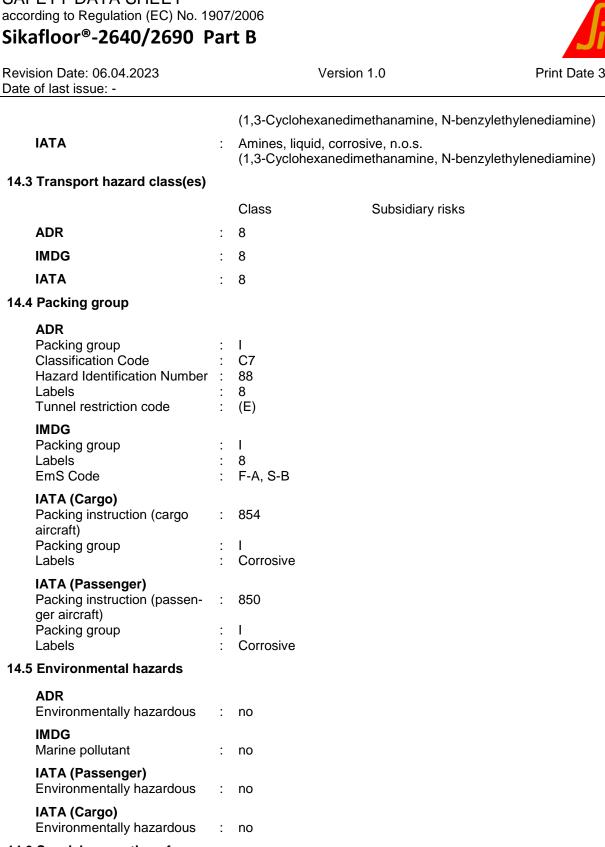
Labels

Labels

Labels

ADR

IMDG



14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.





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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 environmer	ntal regulations/legislat	ion	specific for the substance or mixture
REACH - Restrictions on the ma the market and use of certain da mixtures and articles (Annex XV	nufacture, placing on ngerous substances,	:	
International Chemical Weapons Schedules of Toxic Chemicals a		:	Not applicable
REACH - Candidate List of Subs Concern for Authorisation (Article		:	None of the components are listed (=> 0.1 %).
REACH - List of substances sub (Annex XIV)	ject to authorisation	:	Not applicable
Regulation (EC) No 1005/2009 c plete the ozone layer	on substances that de-	:	Not applicable
Regulation (EU) 2019/1021 on p tants (recast)	ersistent organic pollu-	:	Not applicable
Regulation (EC) No 649/2012 of ment and the Council concerning of dangerous chemicals		:	Not applicable
REACH Information:	All substances contain - registered by our ups - registered by us, and - excluded from the reg - exempted from the reg	strea I/or gula	im suppliers, and/or tion, and/or
Seveso III: Directive 2012/18/EU jor-accident hazards involving da		nent	t and of the Council on the control of ma-
Volatile organic compounds :	(VOCV)		or volatile organic compounds ds (VOC) content: 19,5% w/w

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Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 19,51% w/w

Other regulations:

Act of February 25, 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2020, item 2289)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. 2005 Nr. 259, item 2173 with later amendments).

Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 with later amendments).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste (Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).



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thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 18 February 2019 on enforcing of changes Annexes A and B of Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. 2019, item 769).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450 with later amendments).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

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		
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviation	ns	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
PL OEL	:	Poland. Occupational exposure limits for airborne toxic sub- stances
PL OEL / NDS	:	Maximal Admissible Concentration
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



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IMDG	: International Maritime Code for Dang	erous Goods
LD50	: Median lethal dosis (the amount of a once, which causes the death of 50%	
LC50	test animals) : Median lethal concentration (concent	rations of the chemical in

LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	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 of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Further information

Classification of the	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	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 !

PL/EN