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

1.1 Product identifier

Trade name : PU-280 Part B

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

Product use

: Flooring system, For professional users only.

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Nederland B.V.
		Zonnebaan 56
		3542 EG Utrecht
		Nederland
Telephone	:	+31-30-2410120
Telefax	:	+31-30-2414482
E-mail address of person	:	EHS@nl.sika.com
responsible for the SDS		

1.4 Emergency telephone number

+31-57-0854201

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- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.

Hazardous components which must be listed on the label:

Diphenylmethanediisocyanate, isomeres and homologues

- 4,4'-methylenediphenyl diisocyanate
- o-(p-isocyanatobenzyl)phenyl isocyanate

2,2'-methylenediphenyl diisocyanate

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.

Labelling (REGULATION (EC) No 1272/2008)

tion (EU) 2020/878 PU-280 Part B

2.2 Label elements

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Hazard pictograms

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Signal word	:	Danger	
Hazard statements	:	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breath- ing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary statements	:	Prevention:	
		P201 P260 P264 P280	Obtain special instructions before use. Do not breathe mist or vapours. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		-	0 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
		P342 + P31	1 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.





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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9 Not Assigned	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 \longrightarrow specific concentration limit Eye Irrit. 2; H319 >= 5 % specific concentration limit Resp. Sens. 1; H334 >= 0,1 % specific concentration limit Skin Irrit. 2; H315 >= 5 % specific concentration limit StoT SE 3; H335 >= 5 %	>= 60 - < 80

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4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0	Acute Tox. 4; H332 Skin Irrit. 2; H315	>= 10 - < 20
ilato	01-2119457014-47-	Eye Irrit. 2; H319	
	XXXX	Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		Carc. 2; H351	
		STOT SE 3; H335	
		(Respiratory system)	
		STOT RE 2; H373	
		specific concentration	
		limit	
		Eye Irrit. 2; H319	
		>= 5 %	
		specific concentration	
		limit STOT SE 3; H335	
		>= 5 %	
		~ 0 /0	
		specific concentration	
		limit	
		Skin Irrit. 2; H315	
		>= 5 %	
		specific concentration	
		limit	
		Resp. Sens. 1; H334	
		>= 0,1 %	
		Acute toxicity esti-	
		mate	
		Acute inhalation tox-	
		icity (dust/mist): 1,5	
		mg/l	

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o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1 227-534-9 01-2119480143-45- XXXX	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H317 Carc. 2; H351 STOT RE 2; H373 $\overline{}$ specific concentration limit Eye Irrit. 2; H319 >= 5 %	-
		STOT SE 3; H335 >= 5 % specific concentration limit Skin Irrit. 2; H315 >= 5 % specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	



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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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2,2'-methylenediphenyl diisocya- nate	2536-05-2 219-799-4 01-2119927323-43- XXXX	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H317 Carc. 2; H351 STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % specific concentration limit STOT SE 3; H335 >= 5 % specific concentration limit Skin Irrit. 2; H315 >= 5 % specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	< 0,1
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice		Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	-	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact		Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water.



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	Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specia	list.
If swallowed :	Do not induce vomiting without medical a Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unce	
4.2 Most important symptoms and	effects, both acute and delayed	
Symptoms :	Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed informa and symptoms.	ation on health effects
Risks :	irritant effects sensitising effects Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.	
	Harmful if inhaled. May cause allergy or asthma symptoms ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through pr exposure if inhaled.	
4.3 Indication of any immediate me	edical attention and special treatment ne	adad
Treatment :	Treat symptomatically.	eucu
SECTION 5: Firefighting measu	res	
E 4 Futinguishing modia		
5.1 Extinguishing media Suitable extinguishing media :	In case of fire, use water/water spray/wa ide/sand/foam/alcohol resistant foam/cho extinction.	
5.2 Special bazards arising from th	e substance or mixture	

5.2 Special hazards arising from the substance or mixture

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



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:	In the event of fire, wear self-contained brea	athing apparatus.
:	Standard procedure for chemical fires.	
tiv	e equipment and emergency procedures	
:	Use personal protective equipment. Deny access to unprotected persons.	
:	Do not flush into surface water or sanitary so If the product contaminates rivers and lakes respective authorities.	
tai	nment and cleaning up	
:	Soak up with inert absorbent material (e.g. s acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispo	
	: eı :	 In the event of fire, wear self-contained breaters Standard procedure for chemical fires. e measures tive equipment and emergency procedures Use personal protective equipment. Deny access to unprotected persons. Do not flush into surface water or sanitary s If the product contaminates rivers and lakes respective authorities. tainment and cleaning up Soak up with inert absorbent material (e.g. s acid binder, universal binder, sawdust).

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 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
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Advice on protection against	:	Normal measures for preventive fire protection.
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fire and explosion		
Hygiene measures :	Handle in accordance with good industrial hygon practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the	en using do not
7.2 Conditions for safe storage, inc	cluding any incompatibilities	
Requirements for storage : areas and containers	Keep container tightly closed in a dry and wel place. Containers which are opened must be sealed and kept upright to prevent leakage. S 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) :	Cleaning with aprotic polar solvents must be a Consult most current local Product Data Shee use.	

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 *
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	AGW (Inhalable fraction)	0,05 mg/m3 (MDI)	DE TRGS 900
	Further information: Senate commission for the review of com- pounds at the work place dangerous for the health has also estab- lished a BEI-value for the same OEL value in the 'MAK- and BAT-			
o-(p-isocyanatobenzyl)phenyl isocyanate	value list' 5873-54-1	TWA (Vapour or aerosols)	0,05 mg/m3	DE TRGS 900
	Further information: Commission for dangerous substances			
2,2'-methylenediphenyl diisocyanate	2536-05-2	TWA (Vapour or aerosols)	0,05 mg/m3	DE TRGS 900
***	Further information: Commission for dangerous substances			

*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

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		Eye wash bottle with pure water	
Hand protection	:	Chemical-resistant, impervious gloves complyir proved standard must be worn at all times when chemical products. Reference number EN 374. facturer specifications.	n handling
		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.	t splashes:
Skin and body protection	:	Protective clothing (e.g. Safety shoes acc. to El long-sleeved working clothing, long trousers). R and protective boots are additionaly recommen and stirring work.	Rubber aprons
Respiratory protection	:	In case of inadequate ventilation wear respirator Respirator selection must be based on known of exposure levels, the hazards of the product and ing limits of the selected respirator. Use a properly fitted NIOSH approved air-purify respirator complying with an approved standard sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 Ensure adequate ventilation. This can be achie exhaust extraction or by general ventilation. (En ods for determining inhalation exposure). This a ticular to the mixing / stirring area. In case this is to keep the concentrations under the occupatio limits then respiration protection measures must Ensure adequate ventilation, especially in confi	or anticipated d the safe work- ving or air-fed d if a risk as- ppm ved by local N 689 - Meth- applies in par- s not sufficent nal exposure at be used.
Environmental exposure co	ontr	ols	

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: brown
Odour	: characteristic

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Melting point/ range / Freez- ing point	: No data available	
Boiling point/boiling range	: No data available	
Flammability (solid, gas)	: No data available	
Upper/lower flammability or	explosive limits	
Upper explosion limit / Upper flammability limit	-	
Lower explosion limit / Lower flammability limit	: No data available	
Flash point	: ca. 220 °C Method: closed cup	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
рН	: Not applicable substance/mixture reacts with water	
Viscosity Viscosity, kinematic	: >7 mm2/s (40 °C)	
Solubility(ies) Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Vapour pressure	: 0,01 hPa	
Density	: ca. 1,24 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 react	ivity		
10.1 Reactivity			
No dangerous reaction known ur	nder conditions of normal use.		
10.2 Chemical stability			
The product is chemically stable.			
10.3 Possibility of hazardous react	ions		
Hazardous reactions	No hazards 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 pro	ducts		
:	No hazardous decomposition products are know	vn.	

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

Components:

Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity	:	LD50 Oral (Rat): > 10.000 mg/kg
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.
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 9.400 mg/kg

4,4'-methylenediphenyl diisocyanate:



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Acute oral toxicity :	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401			
Acute inhalation toxicity :	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement			
	Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method			
Skin corrosion/irritation Causes skin irritation.				
Serious eye damage/eye irritat Causes serious eye irritation.	ion			
Respiratory or skin sensitisati	on			
Skin sensitisation May cause an allergic skin react	ion.			
Respiratory sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Germ cell mutagenicity Not classified due to lack of data				
Carcinogenicity Suspected of causing cancer.				
Reproductive toxicity Not classified due to lack of data	Reproductive toxicity Not classified due to lack of data.			
STOT - single exposure May cause respiratory irritation.				
STOT - repeated exposure May cause damage to organs th	rough prolonged or repeated exposure if inhaled	i.		
Aspiration toxicity Not classified due to lack of data				
11.2 Information on other hazards				
Endocrine disrupting propertie	es			
Product:				
Assessment :	The substance/mixture does not contain comp ered to have endocrine disrupting properties a REACH Article 57(f) or Commission Delegate (EU) 2017/2100 or Commission Regulation (E levels of 0.1% or higher.	according to d regulation		



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SECTION 12: Ecological information

12.1 Toxicity

Components:

Diphenylmethanediisocyanate, 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

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.
mation		



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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 05 01* waste isocyanates
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	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 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 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
Country NIL 00000021///20		

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IATA (Passenger)	Not regulated as a dar	ngerous good	
14.5 Environmental hazards Not regulated as a dangerous go	od		
14.6 Special precautions for user Not applicable			
14.7 Maritime transport in bulk accord Not applicable for product as sup	-	ents	
SECTION 15: Regulatory information	ation		
15.1 Safety, health and environmen International Chemical Weapons Schedules of Toxic Chemicals ar	Convention (CWC)	ion specific for th : Not applicable	
REACH Information:	All substances contain - registered by our ups - registered by us, and - excluded from the reg - exempted from the reg	tream suppliers, ar /or gulation, and/or	
REACH - Restrictions on the manufacture, placing or the market and use of certain dangerous substances mixtures and articles (Annex XVII)			restriction for the fol- should be considered: t 3
		thanediisocya homologues, 4 diisocyanate,	t 56: Diphenylme- nate, isomeres and 4,4'-methylenediphenyl o-(p- nzyl)phenyl isocyanate
		thanediisocya homologues, 4 diisocyanate, isocyanatober	t 74: Diphenylme- nate, isomeres and 4,4'-methylenediphenyl o-(p- nzyl)phenyl isocyanate, ediphenyl diisocyanate
		Number on lis Banned and/o	
REACH - Candidate List of Subst Concern for Authorisation (Article		: None of the co (=> 0.1 %).	omponents are listed

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REACH - List of substances sul (Annex XIV)	oject to authorisation : Not applicable	
Regulation (EC) on substances layer	that deplete the ozone : Not applicable	
Regulation (EU) 2019/1021 on tants (recast)	persistent organic pollu- : Not applicable	
Regulation (EU) No 649/2012 o ment and the Council concernir of dangerous chemicals		
Seveso III: Directive 2012/18/El jor-accident hazards involving d	J of the European Parliament and of the Council angerous substances. Not applicable	on the control of ma-
Volatile organic compounds	 Law on the incentive tax for volatile organic co (VOCV) no VOC duties 	ompounds
	Directive 2010/75/EU of 24 November 2010 or emissions (integrated pollution prevention and Not 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

H315 H317 H319 H332 H334	::	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H335 H351 H373	:	May cause respiratory irritation. Suspected of causing cancer. 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 abbreviations

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Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens. STOT RE STOT SE DE TRGS 900 DE TRGS 900 / TWA DE TRGS 900 / AGW		Acute toxicity Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Germany. TRGS 900 - Occupational exposure limit values. Time weighted average Time Weighted Average
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
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)
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	ne 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





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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 !

NL / EN