

**X - PRIMER**

Creation date	02. August 2019	Version	1.0
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier**  
Substance / mixture X - PRIMER  
Number R 34266  
UFI QWV1-23S6-F00Q-D544
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Primer.
- The use descriptors**
- |         |   |
|---------|---|
| SU 15   | Manufacture of fabricated metal products, except machinery and equipment              |
| SU 17   | General manufacture, e.g. machinery, equipment, vehicles, other transport equipment   |
| SU 19   | Building and construction work  |
| PROC 10 | Roller application or brushing  |
| ERC 8b  | Widespread use of reactive processing aid (no inclusion into or onto article, indoor) |
- Mixture uses advised against For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
- Supplier**
- |                             |  |
|-----------------------------|--|
| Name or trade name          | RETECH, s.r.o.   |
| Address                     | Vackova 1541/4, Praha 5 - Stodůlky, 155 00<br>Czech Republic |
| Identification number (CRN) | 25018205   |
| Phone                       | +420327596428  |
| E-mail                      | info@retech.cz   |
| Web address                 | www.retech.com   |
- Competent person responsible for the safety data sheet**
- |        |                |
|--------|----------------|
| Name   | RETECH, s.r.o. |
| E-mail | info@retech.cz |
- 1.4. Emergency telephone number**  
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)  
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225  
Eye Irrit. 2, H319  
Resp. Sens. 1, H334  
STOT SE 3, H336

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

Causes serious eye irritation. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

ethyl methyl ketone  
diphenylmethane-4,4'-diisocyanate  
isophorone di-isocyanate

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.

**Supplemental information**

EUH 066 Repeated exposure may cause skin dryness or cracking.  
EUH 204 Contains isocyanates. May produce an allergic reaction.

**2.3. Other hazards**

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

**3.2. Mixtures**

**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	ethyl methyl ketone	62-<66	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH 066	3

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 615-005-00-9 CAS: 101-68-8 EC: 202-966-0 Registration number: 01-2119457014-47	diphenylmethane-4,4'-diisocyanate	0,89-<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0,1 % STOT SE 3, H335: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 %	1, 2, 4
Index: 615-008-00-5 CAS: 4098-71-9 EC: 223-861-6 Registration number: 01-2119490408-31	isophorone di-isocyanate	0,44- <0,5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 1, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Chronic 2, H411 Specific concentration limit: Skin Sens. 1, H317: C ≥ 0,5 % Resp. Sens. 1, H334: C ≥ 0,5 %	2

**Notes**

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.
- Substance for which exposure limits of Community for working environment exist.
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

**If on skin**

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice. Wash contaminated clothing before reuse.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

**If swallowed**

DO NOT INDUCE VOMITING! Provide medical treatment.

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**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

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

**If on skin**

not available

**If in eyes**

Causes serious eye irritation.

**If swallowed**

not available

**4.3. Indication of any immediate medical attention and special treatment needed**

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

Container: May burst if heated. Do not breathe smoke.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Prevent other leakage. Use personal protective equipment for work. Prevent contact with skin and eyes. Keep unprotected persons away. Remove all ignition sources.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

**6.3. Methods and material for containment and cleaning up**

Ventilate the room. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Explosion risk in case of fire. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Take precautionary measures against static discharge. Ground and bond container and receiving equipment. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not eat, drink or smoke when using this product. Avoid release to the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep only in original container. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

**7.3. Specific end use(s)**

not available

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

**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethyl methyl ketone (CAS: 78-93-3)	OEL	8 hours	600 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	200 ppm		
	OEL	Short-term	900 mg/m <sup>3</sup>		
	OEL	Short-term	300 ppm		

**United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethyl methyl ketone (CAS: 78-93-3)	WEL	8 hours	600 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	899 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	200 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	300 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	

**PNEC**

isophorone di-isocyanate

Route of exposure	Value	Determining method
Freshwater environment	0.06 mg/l	
Seawater	0.006 mg/l	
Freshwater sediment	218.92 mg/kg	
Sea sediments	21.89 mg/kg	
Microorganisms in wastewater treatment plants	10.6 mg/l	
Soil (agricultural)	44.01 mg/kg	

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**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Category III. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material:  $\geq 0.3$  mm. When handling in long-term or repeatedly, use protective gloves. Material of gloves: Butyl rubber. Recommended thickness of the material:  $\geq 0.4$  mm. Penetration time of glove material:  $> 480$  min. Other protection: protective workwear. Wear category I professional long-sleeved overalls and safety footwear.

**Respiratory protection**

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	liquid at 20°C
color	black
Odour	after solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	80 °C
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	0.8 %
upper	11.5 %
Vapour pressure	150 mbar
Vapour density	2,5
Relative density	0.95
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	400 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

**9.2. Other information**

Density	data not available
ignition temperature	-10 °C
content of organic solvents (VOC)	61.91 %

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Max. VOC content in the product in its ready to use condition 588.1 g/l

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

When used in the standard way, there is not any dangerous reaction with other substances.  
Ethyl methyl ketone: Reacts with strong oxidizing agents. Reacts with light metals. Attacks various types of plastic materials. Decomposes under the effect of heat.  
Diphenylmethan-4-4'-diisocyanate: Thermal decomposition: at 274 °C/525 °F

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Vapours mixed up with air can be explosive.  
Ethyl methyl ketone: May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with air.  
Diphenylmethan-4-4'-diisocyanate: May react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water, strong acids, strong bases.

**10.4. Conditions to avoid**

Protect against flames, sparks, overheating.  
Ethyl methyl ketone: Keep away from heat, open flames.

**10.5. Incompatible materials**

Ethyl methyl ketone: Strong oxidants, inorganic acids, ammonia, copper, chloroform.

**10.6. Hazardous decomposition products**

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.  
Diphenylmethan-4-4'-diisocyanate: May develop: nitric oxide, carbon oxides, hydrogen cyanide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

diphenylmethane-4,4'-diisocyanate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>2000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>9400 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	2.24 mg/l		Rat	

ethyl methyl ketone

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	2737 mg/kg		Rat	
Dermal	LD <sub>50</sub>	6480 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	23.5 mg/l	8 hour	Rat	

isophorone di-isocyanate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	4814 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>7000 mg/kg		Rat	
Inhalation	LC <sub>50</sub>	0.031 mg/l	4 hour	Rat	

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Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	>5 mg/l			

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

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

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

diphenylmethane-4,4'-diisocyanate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
						IARC: Group 3 (not classifiable as a human carcinogen)

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**

May cause drowsiness or dizziness.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**More information**

Diphenylmethan-4,4'-diisocyanate: Mucous membranes and airways may be irritated, and the central nervous system may be affected. Irritation of eye tissue layers. Causes skin irritation. Irritation of the digestion system can occur. Unconsciousness, breathing problems, dizziness, cough, nausea. Risk of pulmonary edema. Risk of pneumonia.

**SECTION 12: Ecological information**

**12.1. Toxicity**



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**Acute toxicity**

Data for the mixture are not available.

diphenylmethane-4,4'-diisocyanate

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	>1000 mg/l	96 hour	Fishes (Danio rerio)	

ethyl methyl ketone

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	2993 mg/l	96 hour	Fishes (Pimephales promelas)	
EC <sub>50</sub>	308 mg/l	48 hour	Daphnia (Daphnia magna)	

**Chronic toxicity**

diphenylmethane-4,4'-diisocyanate

Parameter	Value	Time of exposure	Species	Environment
NOEC	1640 mg/l		Algae (Desmodesmus subspicatus)	

**12.2. Persistence and degradability**

**Biodegradability**

diphenylmethane-4,4'-diisocyanate

Parameter	Value	Time of exposure	Environment	Result
	0.1-100 mg/l		Freshwater	Hardly biodegradable

ethyl methyl ketone

Parameter	Value	Time of exposure	Environment	Result
	>10000 mg/l		Freshwater	Easily biodegradable

Data not available.

**12.3. Bioaccumulative potential**

diphenylmethane-4,4'-diisocyanate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Kow	4.51				

ethyl methyl ketone

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Kow	0.3				

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

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Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**SECTION 14: Transport information****14.1. UN number**

UN 1139

**14.2. UN proper shipping name**

COATING SOLUTION

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

II - substances presenting medium danger

**14.5. Environmental hazards**

No.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

**Additional information**

Special instructions: A3

Hazard identification No.

<b>33</b>	(Kemler Code)
<b>1139</b>	

UN number

3

Safety signs

**Road transport - ADR**

Special provision	640D
Limited quantities	5 L
Excepted quantities	E1
Transport category	3
Tunnel restriction code	(D/E)

**Air transport - ICAO/IATA**

Packaging instructions passenger	353
Cargo packaging instructions	364

**Marine transport - IMDG**

EmS (emergency plan)	F-E, S-E
Marine Pollutant	No

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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended.

**Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended**

diphenylmethane-4,4'-diisocyanate

Restriction	Conditions of restriction
56	<p>1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:</p> <p>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC (*****);</p> <p>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:</p> <p>“— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</p> <p>— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</p> <p>— This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.”</p> <p>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</p>

**15.2. Chemical safety assessment**

not available

**More information**

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product - Point: 3 - 40

Contained substance - Point: 56 - DIPHENYLMETHANE-4,4'-DIISOCYANATE (Reg. no.: 01-2119457014-47-XXXX)

**SECTION 16: Other information**

**A list of standard risk phrases used in the safety data sheet**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.

**A list of additional standard phrases used in the safety data sheet**

- EUH 066 Repeated exposure may cause skin dryness or cracking.
- EUH 204 Contains isocyanates. May produce an allergic reaction.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

- ADR European agreement concerning the international carriage of dangerous goods by road
- BCF Bioconcentration Factor
- CAS Chemical Abstracts Service
- CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
- DNEL Derived no-effect level
- EC Identification code for each substance listed in EINECS
- EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population
- EINECS European Inventory of Existing Commercial Chemical Substances
- EmS Emergency plan
- EU European Union
- IATA International Air Transport Association
- IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
- IC<sub>50</sub> Concentration causing 50% blockade
- ICAO International Civil Aviation Organization
- IMDG International Maritime Dangerous Goods
- INCI International Nomenclature of Cosmetic Ingredients
- ISO International Organization for Standardization
- IUPAC International Union of Pure and Applied Chemistry
- LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population
- LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population
- LOAEC Lowest observed adverse effect concentration
- LOAEL Lowest observed adverse effect level
- log Kow Octanol-water partition coefficient
- MARPOL International Convention for the Prevention of Pollution From Ships
- NOAEC No observed adverse effect concentration
- NOAEL No observed adverse effect level
- NOEC No observed effect concentration
- NOEL No observed effect level
- OEL Occupational Exposure Limits
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted no-effect concentration
- ppm Parts per million
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID Agreement on the transport of dangerous goods by rail
- UN Four-figure identification number of the substance or article taken from the UN Model Regulations

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UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.