

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Self-repairing Hardener Immortal**

Revision date: 14.11.2016

Product code:

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Self-repairing Hardener Immortal

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Coatings and paints, fillers, putties, thinners

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name: carparts GmbH

Street: Vietorstraße 87

Place: D-51103 Köln

Telephone: +49 (0)221 28 58 58 -58

Telefax: +49 (0)221 28 58 58 -99

e-mail: info@carparts-koeln.de

Responsible Department: info@carparts-koeln.de

**1.4. Emergency telephone number:** +49 (0)221 28 58 58 -58 (9:00-17:00 Mo-Fr)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

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

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Diphenylmethane Diisocyanate, isomers and homologues

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methyl acetate  
hexamethylene-di-isocyanate

Signal word: Danger

Pictograms:



## Hazard statements

H225 Highly flammable liquid and vapour.  
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 difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Wear respiratory 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.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to local/regional/national/international regulations.

## Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH204 Contains isocyanates. May produce an allergic reaction.

## 2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
9016-87-9	Diphenylmethane Diisocyanate, isomers and homologues			70 - < 75 %
		615-005-01-6		
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
79-20-9	methyl acetate			20 - 30 %

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	201-185-2	607-021-00-X	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066		
822-06-0	hexamethylene-di-isocyanate		0.5 - < 1 %
	212-485-8	615-011-00-1	
	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H331 H315 H319 H334 H317 H335		

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

First aider: Pay attention to self-protection! Use appropriate respiratory protection.

Remove victim out of the danger area.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

#### After contact with skin

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor/?.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

Apply cortisone spray at early stage.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Water spray.

In case of major fire and large quantities: Water spray.

#### Unsuitable extinguishing media

High power water jet.

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

Vapours may form explosive mixtures with air.

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Gas/vapours, irritant.

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### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

Fight fire remotely due to the risk of explosion.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Use personal protective equipment as required. (refer to chapter 8) Use appropriate respiratory protection.

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Use appropriate respiratory protection.

Collect in closed containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

refer to chapter 8.

refer to chapter 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Use personal protective equipment as required. (refer to chapter 8)

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. In use, may form flammable/explosive vapour-air mixture. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Heating causes rise in pressure with risk of bursting.

#### **Further information on handling**

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

General protection and hygiene measures: refer to chapter 8

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Ensure adequate ventilation of the storage area. Make sure spills can be contained (e.g. sump pallets or kerbed areas).

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### Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

### Further information on storage conditions

Protect against: UV-radiation/sunlight. heat. Humidity frost.

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL
79-20-9	Methyl acetate	200	616		TWA (8 h)	WEL
		250	770		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off contaminated clothing. Street clothing should be stored separately from work clothing. Contaminated work clothing should not be allowed out of the workplace.

#### Eye/face protection

Tightly sealed safety glasses. DIN EN 166

#### Hand protection

Wear protective gloves. DIN EN 374

Suitable material: Butyl rubber. (0,5 mm)

penetration time (maximum wearing period): 60 min

Before using check leak tightness / impermeability. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear fire/flame resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

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**Respiratory protection**

Use appropriate respiratory protection.

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

Physical state:	liquid
Colour:	-
Odour:	characteristic

**Changes in the physical state**

Initial boiling point and boiling range:	methyl acetate: 57 °C
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Flash point:	methyl acetate -13 °C
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**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Decomposition temperature:	not determined
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**Oxidizing properties**

none

Density:	1,07 g/cm <sup>3</sup>
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Water solubility:	not determined
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Viscosity / dynamic:	not determined
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**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**Reacts violently with water. Formation of: Carbon dioxide (CO<sub>2</sub>).**10.2. Chemical stability**

Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

In use, may form flammable/explosive vapour-air mixture.

Violent reaction with: Water. Alcohol. amines.

**10.4. Conditions to avoid**

Heating causes rise in pressure with risk of bursting. Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

**10.5. Incompatible materials**

Oxidizing agents. Strong acid. strong alkalis. Water. Alcohol. amines.

**10.6. Hazardous decomposition products**Carbon dioxide (CO<sub>2</sub>).

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Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Nitrogen oxides (NO<sub>x</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No information available.

##### Acute toxicity

Harmful if inhaled.

##### ATEmix calculated

ATE (inhalation vapour) 15,16 mg/l; ATE (inhalation aerosol) 2,080 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Diphenylmethane Diisocyanate, isomers and homologues				
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
79-20-9	methyl acetate				
	oral	LD50 >5000 mg/kg	Rat.	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat.	ECHA Dossier	
	inhalation (4 h) vapour	LC50 >49,2 mg/l	Rabbit.	ECHA Dossier	
822-06-0	hexamethylene-di-isocyanate				
	oral	LD50 (959) mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) vapour	LC50 (0,124) mg/l	Rat	ECHA Dossier	
	inhalation aerosol	ATE 0,5 mg/l			

##### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

##### Sensitising effects

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethane Diisocyanate, isomers and homologues; hexamethylene-di-isocyanate)

May cause an allergic skin reaction. (Diphenylmethane Diisocyanate, isomers and homologues; hexamethylene-di-isocyanate)

The product is: sensitizing.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

##### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethane Diisocyanate, isomers and homologues)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

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**STOT-single exposure**

May cause respiratory irritation. (Diphenylmethane Diisocyanate, isomers and homologues)

May cause drowsiness or dizziness. (methyl acetate)

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking. May cause damage to organs through prolonged or repeated exposure. (Diphenylmethane Diisocyanate, isomers and homologues)

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
79-20-9	methyl acetate					
	Acute fish toxicity	LC50 >250 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 >120 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(>5000 mg/l)	0,5 h	Pseudomonas putida/Photobacterium phosphoreum	ECHA Dossier	

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
79-20-9	methyl acetate			
	OECD 301D / EEC 92/69 annex V, C.4-E	>70	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
79-20-9	methyl acetate	0,18

**12.4. Mobility in soil**

No data available

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**



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### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

#### List of Wastes Code - residues/unused products

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

#### List of Wastes Code - used product

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number:** UN 1263

**14.2. UN proper shipping name:** Paint

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3



Classification code: F1  
 Special Provisions: 163 640D 650  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

### Inland waterways transport (ADN)

**14.1. UN number:** UN 1263

**14.2. UN proper shipping name:** Paint

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3

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Classification code: F1  
 Special Provisions: 163 640D 650  
 Limited quantity: 5 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Marine pollutant: NO  
 Special Provisions: 163  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: A3 A72  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Refer to section 6-8

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

not relevant

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 56: Diphenylmethane Diisocyanate, isomers and homologues

2010/75/EU (VOC): 30 % (calculated)

2004/42/EC (VOC): &lt;1070 g/l (calculated)

**Additional information**

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Directive 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I, Part 2, No 7b (Seveso II)

REACH 1907/2006 Appendix XVII, No (mixture): 3, 56

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Rev. 1.00; 19.03.2015, Initial release

Rev. 1.1; 14.11.2016, Changes in chapter: 2, 16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

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N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic 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.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*