

OP-Coat 500 Part B

Print date 11.09.2025
Revision date 11.09.2025
Version 1.1 (en)
replaces version of 26.08.2025 (1.0)

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

*** 1.1 Product identifier**

Trade name/designation	OP-Coat 500 Part B
Art-Nr.	PU-C-B-500
Substance name	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate)
EC No	931-274-8
REACH No.	01-2119485796-17-XXXX
Unique Formula Identifier	UFI: 39RP-M70Q-P2G5-CPJX

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

Use of the substance/mixture
Curing agent

1.3 Details of the supplier of the safety data sheet

Supplier
H2N TRADING GmbH
Bgm.-Bombeck-Str. 1
D-22851 Norderstedt
Telephone +49 (0)40 308 598 51
Telefax +49 (0)40 308 598 53
E-mail info@h2n-trading.de
Website www.h2n-trading.de

Department responsible for information:
Telephone +49 (0)40 308 598 51

1.4 Emergency telephone number

Giftinformationszentrale Göttingen GIZ-Nord	+49(0)551/ 19 240 24/7
H2N TRADING GmbH	+49 (0)40 308 598 51 Only available during office hours: Monday to Friday from 9.00 am to 5.00 pm.

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Acute Tox. 4, H332
Skin Sens. 1, H317
STOT SE 3, H335

Hazard statements for health hazards
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

*** Remark**

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

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* **2.2 Label elements**

* **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Hazard pictograms



GHS07

Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

* **Precautionary statements**

P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing and eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P315 Get immediate medical advice/attention.
P501 Dispose of contents/container to a licensed disposal company.

* **Special rules on packaging**

Tactile warning according to EN/ISO 11683.

* **Additional information**

< 0,1% Hexamethylene-1,6-diisocyanate is present in the homopolymer hexamethylene-1,6-diisocyanate as an impurity/residue.
Flammable liquid. Reacts with water to release carbon dioxide (CO₂).

2.3 Other hazards

* **Results of PBT and vPvB assessment**

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

3.1 Substances

Substance name	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate)
EC No	931-274-8
REACH No.	01-2119485796-17-XXXX
ATE	ATE(oral): > 2000 mg/kg ATE(dermal): > 2000 mg/kg ATE(inhalation dust/mist): 0.39 mg/L ATE(inhalation dust/mist): 1.5 mg/L

* **Additional information**

The oligomer 'hexamethylene-1,6-diisocyanate homopolymer (HDI oligomer, isocyanurate)' does not meet the definition of diisocyanates. The regulations on the use and marketing of diisocyanates in accordance with the REACH Regulation therefore do not apply.

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* **3.2 Mixtures**

not applicable

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).

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.

In case of irregular breathing or respiratory arrest initiate artificial respiration.

In case of inhalation remove the casualty into fresh air and seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

In case of skin reactions, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses.

In case of eye irritation consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

* **SECTION 5: Firefighting measures**

* **5.1 Extinguishing media**

* **Suitable extinguishing media**

Dry extinguishing powder

Carbon dioxide (CO₂)

alcohol resistant foam

Full water jet

* **Unsuitable extinguishing media**

Full water jet

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

* **Hazardous combustion products**

In the case of thermal decomposition formation of dangerous gases possible.

Carbon monoxide

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Isocyanate vapors

Hydrogen cyanide (hydrocyanic acid)

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* **5.3 Advice for firefighters**

- * **Special protective equipment for firefighters**
In case of fire: Wear self-contained breathing apparatus.
Chemical protection suit

Additional information

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

* **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation / exhaustion at the workplace.
Keep people away and stay on the upwind side.
Avoid skin and eye contact.
Use personal protection equipment.
Do not breathe gas / fumes / vapor / spray.
Use breathing apparatus if exposed to vapors / spray.

6.2 Environmental precautions

Do not seep away runed out product into ground or body of water.
Do not allow to enter into surface water or drains.
If the product contaminates soil, waterways or drains inform the corresponding authorities.

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

- * **For containment**
Ensure adequate ventilation.
Suitable material for taking up:
Sand
Sawdust
calcium silicate hydrate
Cover with moist, liquid-binding material (e.g. sand, chemical binders based on calcium silicate hydrate). After approx. 1 hour, collect mechanically in waste containers, do not seal (CO₂ development).
Send in suitable containers for recovery or disposal.
After taking up the material dispose according to regulation.
- * **For cleaning up**
The leak area can be decontaminated with the following recommended decontamination agent:
Decontamination agent 1: 8-10% sodium carbonate and 2% aqueous liquid soap
Decontamination agent 2: Liquid/yellow soap (potassium soap with ~15% anionic surfactants): 20 ml; water: 700 ml; polyethylene glycol (PEG 400): 350 ml
Decontamination agent 3: 30% commercial liquid detergent (containing monoethanolamine), 70% water

6.4 Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Keep container tightly closed.
 Do not allow this material to come into contact with water (or humid air).
 If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
 Do not inhale polishing dust.
 Protect from heat and direct sunlight.
 Keep in a cool, well-ventilated place.
 Avoid:
 Eye contact
 Skin contact
 Do not inhale gases/vapours/aerosols.

Advices on general occupational hygiene

Thorough skin-cleansing after handling the product.
 Apply skin care products after work.
 When using do not eat, drink, smoke, sniff.
 Remove contaminated, saturated clothing immediately.
 Work in rooms with good ventilation.
 Wash hands before breaks and after work.
 Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
 Keep container tightly closed.

Further information on storage conditions

Store and transport separate of food.

7.3 Specific end use(s)

No data available

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

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
822-06-0	212-485-8	Hexamethylene diisocyanate (HDI)	0,005 (1) [ml/m ³ (ppm)] (1) as NCO (IE)

*** DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
822-06-0	hexamethylene-di-isocyanate	0.07 mg/m ³	acute inhalative (local)	
822-06-0	hexamethylene-di-isocyanate	1 mg/m ³	acute inhalative (local)	Most critical endpoint: irritation (respiratory tract)
822-06-0	hexamethylene-di-isocyanate	0.035 mg/m ³	long-term inhalative (local)	
822-06-0	hexamethylene-di-isocyanate	0.5 mg/m ³	long-term inhalative (local)	Most critical endpoint: irritation (respiratory tract)

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* PNEC					
CAS No	Substance name	PNEC Value	PNEC type	Remark	
822-06-0	hexamethylene-di-isocyanate	77.4 µg/L	aquatic, freshwater		
822-06-0	hexamethylene-di-isocyanate	774 µg/L	aquatic, intermittent release		
822-06-0	hexamethylene-di-isocyanate	7.74 µg/L	aquatic, marine water		
822-06-0	hexamethylene-di-isocyanate	0.01334 mg/kg dw	sediment, freshwater		
822-06-0	hexamethylene-di-isocyanate	0.001334 mg/kg dw	sediment, marine water		
822-06-0	hexamethylene-di-isocyanate	8.42 mg/L	sewage treatment plant (STP)		
822-06-0	hexamethylene-di-isocyanate	0.0026 mg/kg dw	soil		

*** 8.2 Exposure controls****Appropriate engineering controls****Technical measures to prevent exposure**

Ensure good ventilation, where necessary use fume hood.

*** Personal protection equipment***** Eye/face protection**

Eye glasses with side protection

*** Hand protection**

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

Suitable material:

Butyl caoutchouc (butyl rubber)

FKM (fluoro rubber)

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Body protection:

Protective clothing

*** Respiratory protection**

Respiratory protection is required at workplaces with inadequate ventilation and during spray application.

Short term: filter apparatus, Filter A/P2

Breathing apparatus if sanding dust occurs.

Wear fine dust mask / particle filter P2 if dust is generated.

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

liquid

*** Colour**

colourless

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* **Odour**
 almost odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	flowing point approx. -37 °C	ISO 3016	
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	approx. 158 °C	DIN 53213	
Auto-ignition temperature	approx. 445 °C		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	dynamic approx. 1200 mPa*s (23°C)	DIN ISO 3219	
Solubility(ies)	Water solubility		Reacts with water
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	< 0.00003 hPa (20°C)		
Density and/or relative density	approx. 1.17 g/cm ³ (25°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information**Other information**

see technical data sheet

* **SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

* **10.3 Possibility of hazardous reactions**

Reacts with water to form carbon dioxide. Risk of container bursting. Reacts with water at the interface to form a solid, high-melting and insoluble reaction product (polyurea) with the formation of carbon dioxide.

This reaction is greatly promoted by surface-active substances (e.g. liquid soaps) or water-soluble solvents. Based on experience to date, polyurea is inert and non-degradable.

The substance may react dangerously with the substances listed above, among others. exothermic reaction with:

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10.4 Conditions to avoid

Protect from frost, heat and direct sunlight.

* **10.5 Incompatible materials**

Alcohols
 Amines

* **10.6 Hazardous decomposition products**

Concerning possible decomposition products see section 5.
 Carbon monoxide
 Isocyanate
 Hydrogen cyanide (hydrocyanic acid)
 Carbon dioxide
 Nitrogen oxides (NOx)
 Nitrogen oxides can react with water vapor to form nitric acid.

* **SECTION 11: Toxicological information**

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

* **Acute toxicity**

* **Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No822-06-0 hexamethylene-diisocyanate LD50: 959 mg/kg bw Species Rat	OECD 401	
	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) LD50: > 2000 mg/kg Species Rat, female	OECD 423	
Acute dermal toxicity	CAS No822-06-0 hexamethylene-diisocyanate LD50: > 7000 mg/kg Species Rat	OECD 402	
	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) LD50: > 2000 mg/kg Species Rat	OECD 402	
Acute inhalation toxicity	CAS No822-06-0 hexamethylene-diisocyanate LC50: 0.124 mg/L Species Rat Exposure time 4 h	OECD 403	

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Effective dose	Method, Evaluation	Source, Remark
Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) Acute inhalation toxicity (dust/mist) LC50: 0.39 mg/L Species Rat Exposure time 4 h	OECD 403	
Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) Acute inhalation toxicity (dust/mist) conversion value 1.5 mg/L	Expert assessment	

* **Other information**

The test atmosphere created in the animal study is not representative of the situation in the workplace, the way in which the substance is marketed or is likely to be used. Therefore, the test result cannot be used directly for hazard assessment. Based on expert judgement and weight-of-evidence, a modified classification of acute inhalation toxicity is justified.

Assessment/classification

Harmful if inhaled.

* **Skin corrosion/irritation**

* **Assessment/classification**

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

* **Serious eye damage/irritation**

* **Assessment/classification**

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

* **Sensitisation to the respiratory tract**

* **Assessment/classification**

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

* **Skin sensitisation**

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
sensitising.	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) Species Guinea pig	Magnusson-Kligmann	

Assessment/classification

May cause an allergic skin reaction.

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* **Germ cell mutagenicity**

* **Assessment/classification**

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

* **Carcinogenicity**

* **Assessment/classification**

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

* **Reproductive toxicity**

* **Assessment/classification**

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

STOT-single exposure

STOT SE 1 and 2

Other information

No effects known.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

May cause respiratory irritation.

Narcotic effects

Assessment/classification

Not classified

* **STOT-repeated exposure**

* **Other information**

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

Aspiration hazard

Remark

No classification in terms of aspiration.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

* **Other information**

Special properties/effects: In case of overexposure – especially when spraying isocyanate-containing paints without protective measures – there is a risk of concentration-dependent irritation of the eyes, nose, throat and airways. Delayed onset of symptoms and development of hypersensitivity (breathing difficulties, coughing, asthma) are possible. In hypersensitive individuals, reactions can be triggered even at very low isocyanate concentrations, even below the occupational exposure limit. Prolonged skin contact may cause tanning and irritation.

The product should be handled with the care usual when dealing with chemicals.
 Further hazardous properties can not be excluded.

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*** SECTION 12: Ecological information**

*** 12.1 Toxicity**

*** Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No822-06-0 hexamethylene-diisocyanate LC50: 22 mg/L Species Brachydanio rerio Test duration 96 h Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) LC50: > 100 mg/L Species Danio rerio Test duration 96 h		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) EC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) ErC50: > 1000 mg/L Species Scenedesmus subspicatus Test duration 72 h	DIN 38412 / part 9	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate) EC50 3828 mg/L Species activated sludge Test duration 3 h	OECD 209	

*** 12.2 Persistence and degradability**

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	Value	Method	Source, Remark
Biodegradation	aerobic Degradation rate 1 % Test duration 28 d		Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate)
Abiotic degradation			Not easily biodegradable. The product hydrolyses quickly in the presence of water.

*** 12.3 Bioaccumulative potential**

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 3.2		Hexamethylene-1,6-diisocyanate homopolymer (HDI oligomers, isocyanurate)

Assessment/classification

Accumulation in organisms is not expected.

12.4 Mobility in soil

Assessment/classification

Formation of an insoluble polyurea.

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

This substance/mixture does not contain components classified as 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**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Ecological data for the mixture are not available.
 Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
080501 *	waste isocyanates
Waste code packaging	Waste name
150102	plastic packaging
150104	metallic packaging

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Appropriate disposal / Product

The waste code number mentioned is only intended as a recommendation.
 The used product may have different properties than the unused one. This safety data sheet cannot provide any information on the used product.
 Dispose of waste according to applicable legislation.
 Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".
 This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the German federal states.

Appropriate disposal / Package

Disposal in accordance with local regulations.

Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-
14.6 Special precautions for user	No data available		
14.7 Maritime transport in bulk according to IMO instruments	No data available		
All transport carriers	No dangerous good in sense of these transport regulations.		

*** SECTION 15: Regulatory information**

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

No data available

15.2 Chemical Safety Assessment

No data available

*** SECTION 16: Other information**

Indication of changes

* Data changed compared with the previous version

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* Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
ECHA: European Chemicals Agency
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
REACH: Registration, Evaluation and Authorization of Chemicals
PNEC: Predicted No Effect Concentration
SCL: Specific concentration limit
STOT: Specific Target Organ Toxicity
DNEL: derived no-effect level
EC50: Effective Concentration 50%
IC50: Inhibition Concentration 50 %
LC50: Lethal (fatal) Concentration 50%
LD50: Lethal (fatal) Dose 50%
SVHC: Substance of Very High Concern
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
WGK: water hazard class
See overview table at www.euphrac.eu
Skin Irrit. 2: Skin irritation, Category 2
Eye Irrit. 2: Eye irritation, Category 2
Resp. Sens. 1: Respiratory sensitizer, Category 1
Skin Sens. 1: Skin sensitizer, Category 1
STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3
Acute Tox. 3, H331: Acute Toxicity (inhalation), Category 3
Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4

Key literature references and sources for data

Data sheets of the sub-supplier.
European Chemicals Agency (ECHA)
Full text of Hazard Statements in Section 3 (NOT classification of the mixture).
IFA, GESTIS International Limit Values Database

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification of the mixture was carried out following the calculation method according to the CLP Regulation (1272/2008).

* Training advice

See technical data sheet for more information.

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The product is mainly used as a hardener in coating materials or adhesives. Handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures (see also this safety data sheet). They may therefore only be used in industrial or professional applications. They are not suitable for use in do-it-yourself applications.

Additional information

National and local regulations concerning chemicals shall be observed.

The national special regulations must be implemented by each user on his own responsibility!

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.

Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

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Relevant H- and EUH-phrases (Number and full text)

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.

Indication of changes

* Data changed compared with the previous version