Safety Data Sheet

[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

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

1.1. Product identifier

Trade name: **HydroGum**

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

Identified uses: Industrial use; injection resin for waterproofing.

Uses advised against:Do not use the product in any other way than those specified in section 1.

1.3. Details of the supplier of the safety data sheet

Supplier: **ResinBau Ltd.**

Address:3 Frezerów Street, 20-209 Lublin, PL.

Phone/Fax: +48 731 904 000

E-mail address of the person responsible for the safety data sheet: info@resinbau.eu

1.4. Emergency phone number

112 (general emergency phone), 998 (fire department), 999 (medical emergency).

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification of the mixture according to Regulation (EC) No. 1272/2008

Mixture classified as hazardous. Skin Irrit. 2, H315
Skin Sens. 1B, H317
Eye Irrit. 2, H319
Resp. Sens. 1, H334
STOT SE 3, H335
Carc. 2, H351
STOT RE 2, H373 (inhalation)
The most serious negative effects on human health and the environment
Irritating to eyes. May cause allergy or asthma symptoms or breathing difficulties due to
Inhalation. Irritating to the skin. May cause irritation of the respiratory tract. May cause damage to organs through prolonged or repeated exposure following inhalation. May cause an allergic reaction
skin. It is suspected of causing cancer.

2.2. Signage elements

Hazard pictogram

Warning slogan
Danger

Substances of concern
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate
Polymeric diphenylmethane diisocyanate, polymeric MDI Oligomers of 4,4'-methylenediphenyl diisocyanate

Hazard statements

H315Actively irritates the skin.
H317May cause an allergic skin reaction.
H319Effects as an eye irritant.
H334May cause allergy or asthma symptoms or breathing difficulties due to inhalation. H335May cause irritation of the respiratory tract.
H351Suspected to cause cancer.
H373May cause damage to organs through prolonged or repeated exposure by inhalation.

Precautionary statements

P101Show container or label if medical advice is needed. P102Protect from children.
P280 Use protective gloves.
P304+P340 IF INHALED: Remove or carry victim to fresh air and provide conditions for free breathing.
P405Store under seal.
P501 Dispose of contents/container to an authorized waste disposal facility or return to supplier.

Supplementary information

EUH204 Contains isocyanates. May cause an allergic reaction.

Requirements for childproof closures and tactile warnings

The packaging must be equipped with a tactile warning about the danger for the blind.

2.2 Other risks

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No. 1907/2006 (REACH) as a m e n d e d .

SECTION 3: Composition/information on ingredients

3.2 Mixtures

The mixture contains the following hazardous substances and substances with specified maximum concentrations in the working atmosphere

Identification numbers	Name of the substance	Content in % by weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-806-4	Reaction mass of 4,4'- diisocyanate. methylenediphenyl isocyanate and o-(p-(phenyl)isocyanate / diisocyanate methylenediphenyl	<22	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 STOT RE 2, H373 (inhalation) EUH204 Specific concentration limit: Resp. Sens. 1, H334: C > 0.1 %. Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: C > 5 %	1, 2, 3
CAS: 9016-87-9 EC: 618-498-9	Polymeric diphenylmethane diisocyanate, polymeric MDI	<10	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 (inhalation) STOT RE 2, H373 (routes respiratory (inhalation)) Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0.1 %.	

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Identification numbers	Name of the substance	Content in % by weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 25686-28-6 EC: 500-040-3	Oligomers of 4,4'- diisocyanate. methylenediphenyl	<2	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 (inhalation) STOT RE 2, H373 (inhalation)	1, 2, 3

Comments

1 Note C: Some organic substances are marketed either as a specific isomer or as a mixture of several isomers. In this case, the supplier must state on the label whether the substance is
s p e c i f i c isomer, or a mixture of isomers.
2 Note 2: The isocyanide concentration shown is the weight percentage of the free monomer calculated relative to the total weight of the mixture.
3 Substance for which exposure limits have been established.

The full wording of all classifications and H-phrases is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If health complaints occur or in case of doubt, notify a doctor and provide him with the information from this safety data sheet. In case of unconsciousness, place the victim in a stable position on the side with the head slightly tilted and ensure that the breathing passages are clear, never induce vomiting.
If the victim is vomiting on his own, care should be taken to avoid choking on vomit. In the case of life-threatening situations first perform CPR on the victim and provide medical assistance. Apnea - immediately perform artificial respiration. Cardiac arrest - immediately perform indirect c a r d i a c massage.

If it enters the respiratory tract

Immediately stop exposure, move the affected person to fresh air. Protect the affected person from the cold. Provide medical care if irritation, shortness of breath and other symptoms persist.

In case of skin contact

Put away the soiled clothing. Wash the affected area with plenty of - if possible - lukewarm water. If no skin lacerations, soap or soapy water can be used. Provide medical attention if skin irritation persists.

In case of getting into the eyes

Immediately rinse the eyes with a stream of water, dilate the eyelids (even with force); if the victim wears contact lenses, remove them immediately. Rinse for at least 10 minutes. Provide specialized medical care.

In case of ingestion

Rinse the mouth with water and drink 2-5 dl of water. In the case of a person with health problems, provide medical care.

4.2. Most important acute and delayed symptoms and effects of exposure

In case of respiratory inhalation

Irritation of the respiratory tract, coughing difficulty breathing, shortness of breath. asthmatic symptoms, pulmonary edema.

In case of skin contact

Redness, dryness of the skin. irritation.

In case of getting into the eyes

Redness, tearing, burning, irritation.

In case of ingestion.

Abdominal pain, vomiting, nausea.

4.3. Most important acute and delayed symptoms and effects of exposure

Indication of any immediate medical attention and special treatment of the victim

Symptomatic Treatment.

Other data

No other relevant information is available.

Safety Data Sheet

[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

SECTION 5: Fire fighting measures

5.1. Extinguishing agents

Suitable extinguishing agents

Foam resistant to alcohol, carbon dioxide, powder, water - dispersed stream, w a t e r mist.

Unsuitable extinguishing agents

Water - full stream.

In case of skin contact

5.2. Special hazards associated with the substance or mixture

During a fire, carbon monoxide and dioxide and other toxic gases can be produced. Inhalation of dangerous products of combustion (pyrolysis) can lead to serious health damage.

5.3. Information for the fire department

Autonomous breathing apparatus with chemical protective clothing only in circumstances where personal (close) contact is likely. Use an insulating oxygen apparatus and a f u l l - b o d y protective suit. Do not allow contaminated fire extinguishing agents to enter drains, surface water and groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use working personal protective equipment. Follow the instructions in sections 7 and 8. Do not inhale mist/vapor/spray. Do not allow contact with eyes or skin.

6.2. Environmental precautions

Prevent soil contamination and entry into surface or ground water.

6.3. Methods and materials for containment and cleaning up

Cover the spilled product with a suitable (non-flammable) absorbent material (sand, silica, soil and other suitable absorbent materials, etc.), collect in well-closed containers and dispose of in accordance with section 13. In case of leakage of a larger amount of product, inform firefighters and other competent authorities. After disposal, wash the contaminated area with plenty of water. Do not use solvents.

6.4. References to other sections

See sections 7., 8. and 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Prevent the formation of gases and vapors in concentrations exceeding the maximum permissible concentrations for the atmosphere working. Use working personal protective equipment in accordance with Section 8. Comply with applicable safety and health regulations.

7.2. Conditions for safe storage, including information on any incompatibilities

Store in tightly closed containers in designated cool, dry and well ventilated areas. Recommended storage temperature: 5-35°C. Protect from water and moisture, avoid solar radiation. Contact with water may cause polymerization of the product or a reaction |. with the release of carbon dioxide, which can cause damage or bursting of containers. Recommended packaging: metal drum, palletized container, HDPE canisters.

Storage temperature min 5 °C, max 35 °C.

7.3. Specific end use(s)

No information on uses other than those specified in subsection 1.2 of the charter.

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

The mixture contains substances for which exposure limits have been established for the working environment.

PolandDz .U. 2021 item 325

Name of the substance (ingredients)	Type	Value
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl / methylenediphenyl diisocyanate	NDS	0.03 mg/m3
	NDSCh	0.09 mg/m3

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DNEL

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate					
Employees/consumers	Route of exposure	Value	Impact	Determination of values	Source
Employees	Inhalation	0.1 mg/m3	Short-term local effects		
Employees	Inhalation	0.05 mg/m3	Chronic local effects		

Oligomers of 4,4'-methylenediphenyl diisocyanate					
Employees/consumers	Route of exposure	Value	Impact	Determination of values	Source
Employees	Inhalation	0.1 mg/m3	Short-term local effects		
Employees	Inhalation	0.05 mg/m3	Chronic local effects		

Polymeric diphenylmethane diisocyanate, polymeric MDI					
Employees/consumers	Route of exposure	Value	Impact	Determination of values	Source
Employees	Inhalation	0.1 mg/m3	Short-term local effects		
Employees	Inhalation	0.05 mg/m3	Chronic local effects		

PNEC

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate /methylenediphenyl diisocyanate			
Route of exposure	Value	Determination of values	Source
Drinking water	1 mg/l		
Seawater	0.1 mg/l		

Oligomers of 4,4'-methylenediphenyl diisocyanate			
Route of exposure	Value	Determination of values	Source
Drinking water	3.7 µg/l		
Seawater	0.37 µg/l		

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[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

Polymeric diphenylmethane diisocyanate, polymeric MDI			
Route of exposure	Value	Determination of values	Source
Drinking water	3.7 µg/l		
Seawater	0.37 µg/l		

8.2. Exposure control

Remove and wash contaminated clothing before reuse. Follow the usual procedures for occupational health protection, primarily good ventilation. This can be achieved through local air extraction or effective general ventilation. If the NDS-P cannot be met in this way, appropriate respiratory protection must be used. Do not eat, drink or smoke while working. After work and before taking a break to eat and rest
Wash your hands thoroughly with soap and water.

Eye or face protection

Safety glasses.

Skin protection

Hand protection: Product-resistant protective gloves. Following the recommendations of the specific glove manufacturer
Select the appropriate thickness, material and permeability. Follow other manufacturer's recommendations. Other means of protection: Work protective clothing. Wash skin thoroughly if soiled.

Respiratory protection

A respirator with a filter against organic vapors, possibly an insulating breathing apparatus in case of
Exceed exposure limits of the substance or in an environment with inadequate ventilation. In case of inadequate ventilation, use individual respiratory protection.

Heat hazard

No data available.

Environmental exposure control

Please follow the usual procedures for protecting the work environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State of aggregation	liquid
Color	yellow
	ScentNo data available
melting/freezingpoint	nodata
Boiling point or initial boiling point and	
	boiling rangeno data available
Flammability of	materialsNo data available
Lower and upper	explosive limitsNo data available
	Ignition temperatureno data available
	Self-ignition temperatureno data available
	Decomposition temperatureno data available
pHreacts	with water
	Kinematic viscosityNo data available
Solubility in	waterNo data available
Partition coefficient n-octanol/water (value log ratio)	no data
	Vapor pressure no data available
Density or relative density	
density1	.09-1.15 g/cm3 at 23 °C
Relative	pair density data missing
Characterization of	moleculesNo data available

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[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

9.2. Other information

Dynamic viscosity at 23°C = 370 ± 30 mPas

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive product. Polymerizes with increasing temperature and humidity.

10.2. Chemical stability

Under normal conditions, the product is stable.

10.3. Potential for hazardous reactions

They are not known.

10.4. Conditions to avoid

Under normal use, the product is stable, no decomposition occurs. Protect from flames, sparks, overheating and from frost.

10.5. Incompatible materials

Protect from strong acids and bases, as well as from oxidizing substances.

10.6. Hazardous decomposition products

In the case of ordinary use, they do not arise. At high temperatures and during a fire, dangerous products such as carbon monoxide and carbon dioxide are formed.

SECTION 11: Toxicological information

11.1. Reactivity

Inhalation of solvent vapors above the exposure limits for the work environment can lead to acute inhalation poisoning, and this depends on the concentration level and exposure time. No toxicological data are available for the mixture.

Acute toxicity

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

HydroGum							
Route of exposure	Parameter	Method	Value	Duration of exposure	Genre	Gender	Determination of values
Inhalation (pairs)	ATE		>32.35 mg/l				Calculation of the value of

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate							
Route of exposure	Parameter	Method	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route (drinking water)	LD50		>2000 mg/kg		Rat (Rattus norvegicus)	F/M	
Inhalation	LC50	OECD 403	0.368 mg/l		Rat (Rattus norvegicus)	F/M	

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[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

Polymeric diphenylmethane diisocyanate, polymeric MDI							
Route of exposure	Parameter	Method	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route	LD50		>2000 mg/kg		Rat (Rattus norvegicus)	F/M	
Inhalation (aereosols)	LC50	OECD 403	431 mg/m3	4 hours	Rat (Rattus norvegicus)	F/M	
Leather	LD50	OECD 402	9400 mg/kg	24 hours	Rabbit	F/M	

Corrosive/irritating effect on skin
Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/eye irritation
Causes eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitization effects
May cause allergy or asthma symptoms or breathing difficulties due to inhalation. May cause allergic skin reaction. Data for the components of the mixture are not available.

Mutagenic effect on germ cells
No data available for the mixture or components. Based on available data, the classification criteria for the mixture are not met.

Carcinogenic effects
It is suspected of causing cancer.

Polymeric diphenylmethane diisocyanate, polymeric MDI							
Route of exposure	Parameter	Method	Value	Duration of exposure	Result	Genre	Gender
Inhalation (aerosols)	NOAEC	OECD 453	0.7 mg/m3	2 years		Rat (Rattus norvegicus)	F
Inhalation (aerosols)	NOAEC	OECD 453	0.23 mg/m3	2 years		Rat (Rattus norvegicus)	F

Reproductive toxicity
No data available for the mixture or components. Based on available data, the classification criteria for the mixture are not met.

Toxic effects on target organs - single exposure
May cause respiratory irritation. Data for the components of the mixture are not available.

Toxic effects on target organs - repeated exposure
May cause damage to organs through prolonged or repeated exposure following inhalation. Data for the components of the mixture are not available.

Aspiration hazard
No data available for the mixture or components. Based on available data, the classification criteria for the mixture are not met.

11.2. Information on other risks

The mixture does not contain substances with endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

SECTION 12: Ecological information

12.1. Toxicity

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

Acute toxicity

Polymeric diphenylmethane diisocyanate, polymeric MDI				
Parameter	Value	Duration of exposure	Genre	Environment
LC50	>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

12.2. Persistence and degradability

No data available for the mixture or components.

12.3. Bioaccumulative potential

No data available for the mixture or components.

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate					
Parameter	Value	Duration of exposure	Genre	Environment	Temperature [°C].
BCF	200	28 days	Fish (Oncorhynchus mykiss)	Fresh water	

12.4 Mobility in soil

Data for the mixture are not available.

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate			
Parameter	Value	Environment	Temperature [°C].
KOC	4,5		20°C

12.5 Results of PBT and vPvB assessment

The product does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No. 1907/2006 (REACH) as amended.

12.6 Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other harmful effects

The mixture does not contain substances with endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 13: Waste treatment

13.1 Waste disposal methods

Danger of contamination of the environment, proceed in accordance with the Act OJ. 2013, item 21 on waste and implementing regulations on waste disposal. Proceed in accordance with applicable regulations on waste disposal. Unused product and soiled packaging should be stored in closed waste collection vessels and handed over for disposal to a person authorized to dispose of waste (specialized company), which is authorized to conduct such activity. Do not pour unused product into the sewage system. Do not dispose of together with municipal waste. Empty packaging can be energetically used in a waste incinerator or collected in a landfill with the appropriate classification. Perfectly cleaned packaging can be sent for recycling.
Suggested classification according to the current waste catalog:
15 01 10* - Packaging containing residues of or contaminated by hazardous substances

Waste management regulations

Announcement of the Speaker of the Sejm of the Republic of Poland dated July 7, 2023 on the announcement of the uniform text of the Waste Act (Journal of Laws 2023 item 1587), as amended. Act of December 14, 2012 on waste (Journal of Laws of January 8, 2013, item 21), as amended. Directive 2008/98/EC of the European Parliament and of the Council of November 19, 2008 on waste. Act of June 13, 2013 on packaging and packaging waste management (Journal of Laws of 2023, item 1658, as amended) Regulation of the Minister of Climate of January 2, 2020 on the waste catalog (Journal of Laws 2020, item 10).

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

irrelevant

14.3. Transport hazard class(es)

irrelevant

14.4. Packaging group

irrelevant

14.5. Threats to the environment

irrelevant

14.6. Special precautions for users

Cross-reference in sections 4 through 8.

14.7. Maritime transport in bulk in accordance with IMO instruments

irrelevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific to the substance or mixture

Public Health Law.
Announcement of the Speaker of the Sejm of the Republic of Poland of April 19, 2016 on the announcement of the uniform text of the Law - Environmental Protection Law (Journal of Laws 2016 item 672).
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council, as amended.
Regulation (EC) No. 649/2012 of the European Parliament and of the Council of July 4, 2012 concerning the export and import of hazardous chemicals.
Law of February 25, 2011 on chemical substances and their mixtures (Journal of Laws 2020, item 2289, 2021, item 2151).
Regulation of the Minister of Health of April 20, 2012 on the labeling of packages of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws No. , item 445).
Regulation of the Minister of Health of August 10, 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws no., item 1018).
Law of May 28, 2020 on amending the Law on chemical substances and their mixtures and some other laws (Journal of Laws 2020 item 1337)
Announcement of the Speaker of the Sejm of the Republic of Poland of February 1, 2019 on the announcement of the unified text of the Law on Transportation of Dangerous Goods (Journal of Laws 2020, item 154).
Law of January 23, 2020 on amending the Law on Waste and certain other laws. (Journal of Laws of January 23, 2020, item 150). Act of June 13, 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888).
Ordinance of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment.
Commission Regulation (EU) 2020/878 of June 18, 2020 amending Annex II to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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15.2. Chemical safety assessment
lack of data

SECTION 16: Other information

List of hazard statements used in the safety data sheet **H315** Irritating to the skin.
H317 May cause an allergic skin reaction.
H319 Irritating to eyes.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties following inhalation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer following inhalation.
H351 Suspected of causing cancer following inhalation.
H373 May cause respiratory damage (inhalation) by prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

List of precautionary statements used in the safety data sheet
P101 If medical advice is needed, show the container or label.
P102 Keep out of the reach of children.
P280 Use protective gloves.
P304+P340 IF INHALED: move out or
Bring the injured person into fresh air and provide conditions for free breathing.
P405 Store under seal.
P501 Dispose of contents/container to an authorized waste disposal facility or return to supplier.

List of additional hazard statements used in the EUH204 safety data sheet. Contains isocyanates. May cause an allergic reaction. **Further information important for safety and protection of human health**

The product must not - without special permission from the manufacturer/importer - be used for any purpose other than that stated in Section 1. The user is responsible for compliance with all related health regulations. **Explanation of 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, labeling and packaging of substances and mixtures
EINECS European Inventory of Existing Commercial Substances
EmS Contingency plan
EuPCS European product classification system
IATA International Air Transport Association
IBC International code for the construction and equipment of ships carrying hazardous chemicals in bulk
ICAO International Civil Aviation Organization
IMDG International Maritime Transportation of Dangerous Goods Regulations
IMO International Maritime Organization
INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry
LC50 The lethal concentration of a substance at which it can be expected to cause the death of 50% of the population
LD50 The lethal dose of a substance at which it can be expected to cause the death of 50% of the population
LOAEC Lowest concentration resulting in adverse effects
log Kow Octanol-water partition coefficient
VOCS Volatile organic compounds
NDS Maximum permissible concentration
NDSCh Maximum allowable instantaneous concentration
NDSP Maximum allowable ceiling concentration
NOAEC Concentration of a substance at which no adverse effects are observed
OEL Occupational exposure limits
PBT Persistent, bioaccumulative and toxic
ppm Parts per million
REACH Registration, evaluation, authorization and restrictions applied to chemicals
RID Regulations concerning the international carriage of dangerous goods by rail
EU European Union
UN The four-digit identification number of the material or object, derived from the "UN Model Regulations"
UVCB Substances of unknown or variable composition, complex reaction products or biological materials
vPvB Very persistent and very bioaccumulative
EC Identification code for each substance listed in EINECS

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Acute Tox. Acute Tox.
Carc. Carcinogenicity
Eye Irrit. Eye irritation
Resp. Sens.Respiratory sensitization
Skin Irrit. Skin irritation
Skin Sens. Skin sensitization
STOT RE Toxic effects on target organs - repeated exposure
STOT SE Toxic effects on target organs - single exposure

Training tips

Familiarize employees with the recommended method of use, mandatory protective measures, first aid and prohibited methods of handling the product.

Recommended restrictions on use

lack of data

Information on the data sources used to compile the safety data sheet

Regulation of the European Parliament and of the Council (EC) No. 1907/2006 (REACH) as amended. Regulation of the European Parliament and of the Council (EC) No 1272/2008 as amended. Data of the manufacturer of the substance/mixture - data from registration documentation.

Other data

Classification procedure - calculation method.|

Statement

The safety data sheet contains data to ensure safety and health protection at work and protection of the environment. The data provided correspond to the current state of knowledge and experience and are in accordance with applicable laws. They cannot be considered a guarantee of the suitability and usability of the product for a specific application.