

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: **WaterStopper**
UFI: **KC00-Y0QD-800Y-FF9N**

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

injection system

Main intended use:

PC-ADH-8 Multicomponent adhesives and sealants

Uses advised against:

Do not use the product in any way other 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 (inhalation)
STOT RE 2, H373 (respiratory (inhalation))

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

The most serious negative effects on human health and the environment

May cause respiratory irritation. Irritating to eyes. Irritating to the skin. May cause allergy or asthma symptoms or breathing difficulties due to inhalation. May cause damage to the pathways
Respiratory (inhalation) through prolonged or repeated exposure. S u s p e c t e d of causing cancer following inhalation. May cause allergic skin reaction.

2.2. Signage elements

Hazard pictogram:



Warning slogan

Danger

Substances of concern

Polymeric diphenylmethane diisocyanate, polymeric MDI

Safety Data Sheet

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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 following inhalation.
H373May cause respiratory damage (inhalation) by prolonged or repeated exposure.

Precautionary statements

P260Do not inhale vapors.
P264Diligently wash hands and affected body parts after use.
P280Wear protective gloves.
P304+P340 IF INHALED: Remove or carry victim to fresh air and provide conditions for free breathing.
P342+P311In case of respiratory symptoms: Contact a physician. P362+P364Remove contaminated clothing and wash before reuse.

Supplementary information

EUH204Contains isocyanates. May cause an allergic reaction.

2.3. Other risks

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria specified 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 in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

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
CAS: 9016-87-9 EC: 618-498-9	Polymeric diphenylmethane diisocyanate, polymeric MDI	<40	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 inhalation (inhalation)) Specific concentration limits: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: C ≥ 5 %. Resp. Sens. 1, H334: C ≥ 0.1 %.	
CAS: 106-65-0 EC: 203-419-9	Dimethyl succinate	<8	Eye Irrit. 2, H319	
Index: 607-194-00-1 CAS: 108-32-7 EC: 203-572-1	Propylene carbonate	<6	Eye Irrit. 2, H319	

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

Safety Data Sheet

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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 carry out resuscitation of the victim and provide medical assistance. Apnea - immediately perform artificial respiration. Cardiac arrest - immediately perform indirect cardiac massage.

If it enters the respiratory tract

Immediately stop exposure, move the victim 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 the skin has not been injured, soap, soapy water or shampoo can be used. Provide medical attention if it persists skin irritation.

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 medical and, if possible, specialized care.

In case of ingestion

Rinse the mouth with water and drink 2-5l 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

May cause allergy or asthma symptoms or breathing difficulties due to inhalation. May cause irritation of the respiratory tract.

In case of skin contact

May cause an allergic skin reaction.

In case of getting into the eyes

Irritating to eyes. If swallowed Irritation, nausea.

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

Symptomatic Treatment.

SECTION 5: Fire fighting measures

5.1. Extinguishing agents

Suitable extinguishing media: alcohol-resistant foam, carbon dioxide, powder, water - dispersed stream, w a t e r mist.

Unsuitable extinguishing media: Water - full stream.

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: Handling of unintentional releases into the environment

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 absorption materials, etc.), collect in well-sealed containers and dispose of in accordance with Section 13.

Safety Data Sheet

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

If more product is spilled, inform firefighters and other competent authorities. After removing the product, 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

Do not inhale mist/vapor/spray. Do not allow contact with eyes or skin. Do not take contaminated protective clothing outside the workplace. Wash hands and affected body parts thoroughly after use. Use only outdoors or in a well-ventilated room. 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. Store under seal. Keep the container tightly closed.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

The mixture does not contain substances for which exposure limits have been established for the working environment.

DNEL

Polymeric diphenylmethane diisocyanate, polymeric MDI					
Employees/cons umers	Route of exposure	Value	Impact	Determina tion of values	Source
Employees	Inhalation	0.1 mg/m ³	Short-term local effects		
Employees	Inhalation	0.05 mg/m ³	Chronic local effects		

Propylene carbonate					
Employees/cons umers	Route of exposure	Value	Impact	Determina tion of values	Source
Employees	Once applied to the skin	50 mg/kg	Chronic systemic effects		

PNEC

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

Propylene carbonate				
Route of exposure	Value	Determination of values	Source	
Drinking water	0.9 mg/l			
Freshwater sediments	0.83 mg/l			

Safety Data Sheet

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8.2. Exposure control

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

Eye or face protection

Safety glasses.

Skin protection

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

Respiratory protection

Half mask with filter against organic vapors in an environment with poor 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:	brown
Scent:	characteristic
Melting point/freezing point:	nodata
Boiling point or initial temperature	
Boiling point and boiling range:	no data
Flammability of materials:	no data
Lower and upper explosive limits:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data
pH:	no data
Kinematic viscosity:	no data
Viscosity:	90±30 mPas at 23 °C
Solubility in water:	nodata
Partition coefficient n-octanol/water:	no data
Vapor pressure:	no data
Density or relative density:	1.2 g/cm ³ (20 °C)
Relative vapor density:	no data
Particle characteristics:	no data available

9.2. Other information

No data available

Safety Data Sheet

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive product. Polymerizes with increasing temperature and humidity.

10.2. Chemical stability

With proper use and storage, the product is stable.

10.3. Potential for hazardous reactions

Dangerous reactions 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 are not formed. At high temperatures and during a fire, they are formed hazardous products, such as carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

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

No toxicological data are available for the mixture.

Acute toxicity

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

WaterStopper							
Route of exposure	Parameter	Method	Value	Duration of exposure	Genre	Gender	Determination of values
Inhalation (pairs)	ATE		>27.5 mg/l				Calculation of the value of

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 (aerosols)	LC50	OECD 403	431 mg/kg	4 hours	Rat (Rattus norvegicus)	F/M	
Leather	LD50	OECD 402	9400 mg/kg	24 hours	Rabbit	F/M	

Propylene carbonate							
Route of exposure	Parameter	Method	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route	LD50	OECD 401	>5,000 mg/kg		Rat (Rattus norvegicus)		
Leather	LD50		>2,000 mg/kg		Rabbit		

Safety Data Sheet

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Corrosive/irritating effect on skin

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

Irritating to eyes. Data for the components of the mixture are not available. Respiratory or skin sensitization.

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.

Carcinogenicity

It is suspected of causing cancer following inhalation.

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/m ³	2 years		Rat (Rattus norvegicus)	F
Inhalation (aerosols)	LOAEC	OECD 453	0.23 mg/m ³	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 respiratory damage (inhalation) by prolonged or repeated exposure. 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.

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.

12.4. Mobility in soil

Data for the mixture are not available.

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.

Safety Data Sheet

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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

No data available.

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. Store unused product and soiled packaging in closed waste collection receptacles and hand 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.

Waste management regulations

Law of December 14, 2012 on waste (Journal of Laws of January 8, 2013, item 21). Directive 2008/98/EC of the European Parliament and of the Council of November 19, 2008 on waste. Directive 94/62/EC on packaging and packaging waste. Regulation of the Minister of Environment of December 9, 2014 on the waste catalog (Journal of Laws 2014, item 1923). 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

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Threats to the environment

Not applicable.

14.6. Special precautions for users

Cross-reference in sections 4 through 8.

14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable.

Safety Data Sheet

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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 consolidated 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 C o u n c i l D i r e c t i v e 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No 1272/2008 as a m e n d e d .

Regulation (EC) No. 649/2012 of the European Parliament and of t h e C o u n c i l of July 4, 2012 concerning the export and import of hazardous chemicals.

Act 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 by the Speaker of the Sejm of the Republic of Poland of February 1, 2019 on the announcement of the uniform text of the Law on the Transport 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).

Law 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 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

List of hazard statements used in the safety data sheet

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 following inhalation.

H373May cause respiratory damage (inhalation) by prolonged or repeated exposure.

List of precautionary statements used in the safety data sheet

P260Do not inhale vapors.

P264Diligently wash hands and affected body parts after use.

P280Wear protective gloves.

P304+P340 IF INHALED: Remove or carry victim to fresh air and provide conditions for free breathing.

P342+P311In case of respiratory symptoms: Contact a physician. P362+P364Remove contaminated clothing and wash before reuse.

Supplementary information

EUH204Contains isocyanates. May cause an allergic reaction.

Further information important for safety and protection of human health

The product must not - without the special permission of the manufacturer/importer - be used for any other purpose than that stated in section 1. The user is responsible for compliance with all related regulations in the field of protection of health.

Explanation of abbreviations and acronyms used in the safety data sheet

ADREuropean Agreement concerning the International Carriage of Dangerous Goods by Road BCFBioconcentration factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures

Safety Data Sheet

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

	EINECS European Inventory of Existing Commercial Substances
	EmSPlan contingency plan
	EuPCSE 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
International	IMDGInternational Regulations for the Maritime Transport of Hazardous Materials IMOM Maritime Organization
	INCIInternational Nomenclature of Cosmetic Ingredients
	ISOM International Organization for Standardization
	IUPACInternational Union of Pure and Applied Chemistry
LD50	The lethal dose of a substance at which it can be expected to cause the death of 50% of the
populationlog Kow	Octanol-water partition coefficient
	LZOLotne organic compounds
	PAC Maximum allowable concentration
	MPPTMaximum allowable instantaneous concentration
	NDSPHighest permissible concentration ceiling.
OELsOccupational exposure limits	
PBTT Persistent	, bioaccumulative and toxic ppmParts per million
REACHRegistration	, evaluation, authorisation and restriction of chemicals applied RIDRegulation for the
international carriage of dangerous goods by rail	
EUEuropean	Union UNCzthe four-digit identification number of the material or object, derived from the "U N Model Regulations"
UVCBSubstances of unknown or variable composition, complex reaction products or biological materials	vPvBBvery persistent and
very bioaccumulative	
	EC Identification code for each substance listed in EINECS
Acute Tox.Acute	Toxicity
STOT	RED Toxic effects on target organs - repeated exposure
Acute Tox.	Acute Tox.
Carc.	Carcinogenicity
Eye Irritation	
Resp. Sens.Respiratory sensitization	
Skin Irrit.Irritating	effect on skin
Skin Sens.	Skin sensitization
STOT RE	Toxic effects on target organs - repeated exposure STOT SEDToxic 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 (EC) No. 1907/2006 of the European Parliament and of the Council (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 the 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.