

# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

### 1.1. Product identifier

Trade name: **HydroGum**

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

Relevant identified uses: industrial application; injection resin for waterproofing.

Uses advised against: not specified.

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

Manufacturer: **ResinBau sp. z o.o.**

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

Telephone/Fax number: +48 42 716 23 38/+48 42 716 23 54

E-mail address for a competent person responsible for SDS info@resinbau.com

### 1.4. Emergency telephone number

112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**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**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs respiratory system through prolonged or repeated exposure inhalation.

### 2.2. Label elements

Hazard pictograms and signal words



Names of dangerous components placed on label:

Contains: prepolymer, reaction product of methylenediphenyl diisocyanate and polyether polyol; 4,4'-methylenediphenyl diisocyanate, oligomers; reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate/methylenediphenyl diisocyanate; 4,4'-methylenediphenyl diisocyanate

Hazard statements

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.
H351	Suspected of causing cancer.
H373	May cause damage to organs respiratory system through prolonged or repeated exposure inhalation.

Precautionary statements

P260	Do not inhale mist/vapour/spray.
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# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep breathing.
P305+P351+P338. IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses if present and can be easily removed. Continue to rinse.	
P333+P313	In case of skin irritation or rash: Seek medical advice/care.
P501	Dispose of contents/container in appropriately labelled waste containers in accordance with national regulations.

## Additional information

As from 24 August 2023 adequate training is required before industrial or professional use.

### 2.3. Other hazards

The components of the mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. The components of the mixture are not assessed as having endocrine disrupting properties.

The product reacts with water giving off carbon dioxide, which can burst closed containers. The reaction is accelerated at higher temperatures.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

CAS number: — EC number: — Index number: — Registration number: —	<b>prepolymer, reaction product of methylenediphenyl diisocyanate and polyether polyol</b> 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	50 % ≤ C ≤ 100 %
CAS number: 78-40-0 WE Number: 201-114-5 Index number: 015-013-00-7 Registration number: —	<b>triethyl phosphate</b> Acute Tox. 4 H302, Eye Irrit. 2 H319	10 % ≤ C < 25 %
CAS number: — EC number: — Index number: — Registration number: —	<b>diisocyanian 4,4'-metylenodifenylu, oligomery</b> 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 EUH204 <sub>1</sub> ), Uwaga C	10 % ≤ C ≤ 25 %
CAS number: — EC number: — Index number: — Registration number: —	<b>reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylenediphenyl diisocyanate</b> 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 EUH204 <sub>1</sub> ), Uwaga C	2,5 % ≤ C ≤ 10 %

# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

CAS Number: 9016-87-9 EC Number: — Index number: — Registration number: —	<b>4,4 'Diphenylmethane diisocyanate, isomers, homologues and mixtures</b> 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	2,5 % ≤ C ≤ 10 %
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1) Additional hazard statement.

The full text of the H-phrases is quoted in section 16 of the charter.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** immediately remove contaminated clothing. Wash contaminated area with plenty of water. In case of irritation consult a doctor. Studies on the MDI indicated that detergents based on polyglycols or corn oil may be more effective than water and soap

**Eye contact:** consult an ophthalmologist if irritation occurs. Protect non-contaminated eye, remove contact lenses. Rinse thoroughly contaminated eyes with water for 10-15 minutes. Avoid strong stream of water - the risk of corneal damage

**Ingestion:** do not induce vomiting. Rinse mouth with water. Do not drink alcohol! Never give anything by mouth to an unconscious person. Call a doctor immediately and show container or label.

**Inhalation:** immediately consult a physician. Remove to fresh air, keep warm and at rest. In case of breathing difficulties give oxygen.

#### After inhalation

Remove victim to fresh air, keep warm and at rest. Consult a doctor if distressing symptoms occur. If the victim experiences difficulty breathing or has respiratory arrest, trained personnel should administer oxygen or perform CPR. Monitor airway patency.

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

**Skin contact:** redness, dryness, irritation, itching, rash or other skin changes.

**Eye contact:** redness, tearing, burning, irritation.

**After inhalation:** respiratory tract irritation, coughing, breathing difficulties, dyspnoea, asthmatic symptoms, pulmonary edema.

**After ingestion:** possible abdominal pain, nausea, vomiting, irritation of the gastrointestinal system.

**Exposure effects:** May cause damage to organs respiratory system through prolonged or repeated exposure inhalation.

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

Emergency treatment will be decided by a doctor after a thorough assessment of the condition of the victim. Persons exposed to the product should be kept under medical care for 48h (possible occurrence of delayed onset of symptoms).

# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

## Section 5: Firefighting measures

### 5.1. Extinguishing agents

Suitable extinguishing media: extinguishing foam, carbon dioxide, extinguishing powder.

Unsuitable extinguishing media: reaction of water with hot product may be violent with release of carbon dioxide, dense stream of water - danger of spreading fire..

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

During combustion, harmful gases may be formed, including carbon oxides, nitrogen oxides, other hazardous unidentified thermal decomposition products, hydrogen cyanide. Avoid inhaling combustion products, they may pose a health hazard.

### 5.3. Information for the fire brigade

General protective measures typical in case of fire. Do not stay in fire hazard area without suitable chemical resistant clothing and breathing apparatus with independent air circulation. Cool fire endangered containers from a safe distance with water spray. Collect used extinguishing agents. Above 45°C product may polymerise. Uncontrolled polymerisation in a closed container may result in an explosion..

## SECTION 6: Accidental release measures

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

Use personal protective equipment. Restrict access of bystanders to the accident area until appropriate clean-up operations have been completed. Ensure that only trained personnel remove the effects of the accident. In case of large releases isolate the affected area. Prevent it from entering drains, basements, land depressions and other areas where its accumulation may be hazardous. Caution danger of slipping on released product.

### 6.2. Environmental precautions

Do not allow product to enter drains, surface water or soil. In the event of a release of larger quantities of product, take steps to prevent spreading in the environment. Notify the relevant emergency services.

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

Collect liquid product with liquid-absorbing materials (e.g. sand, earth, universal binders, silica, etc.). Do not absorb on sawdust or other combustible materials. Allow to react for at least 30 min and place in waste containers for neutralisation (decontamination). Clean the contaminated area. Decontamination: if decontamination is necessary, use a liquid composed of: 5-20% sodium carbonate, 5-10% liquid detergent, top up to 100% with water.

### 6.4. References to other sections

Product waste treatment - see section 13 of the Safety Data Sheet. Personal protective equipment - see section 8 of the fiche.

## SECTION 7: Handling and storage of substances and mixtures

### 7.1. Precautions for safe handling

Work in accordance with health and safety rules. Use personal protective equipment. Avoid the formation of vapours.

~~Wash hands before breaks and after finishing work. Keep containers tightly closed when not in use. Do not eat, drink or smoke while working. Avoid contamination of eyes and skin. Sensitive persons with asthma or bronchial hypersensitivity should not work with this product.~~

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

Store in properly labelled, leak-proof containers in a dry, cool and well-ventilated place. Store away from incompatible materials (subsection 10.5.) and foodstuffs and animal feed. Seal the container after opening and store upright to avoid leakage.

### 7.3. Specific end use(s)

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

# Safety Data Sheet

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## SECTION 8: Exposure controls/personal protective equipment

### 8.1. Control parameters

#### Maximum allowable concentrations

The product does not contain components subject to occupational exposure controls (legal basis: OJ 2018, item 1286, as amended).

#### Recommended monitoring procedures

Not applicable.

#### DNEL & PNEC

Not applicable.

### 8.2. Exposure controls

#### Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Avoid contact with eyes and skin. Immediately remove contaminated clothing. In the workplace, general and/or local ventilation should be provided in order to keep the concentrations of harmful substances in the air below the permissible concentration limits. When handling do not eat, drink, smoke or take medications. Before break and after work wash hands carefully.

#### Individual protection measures, such as personal protective equipment

During the selection of appropriate personal protective equipment, the type of hazard posed by the product, the conditions at the workplace and the way of handling the product should be taken into consideration. The used personal protective equipment must meet the requirements of Regulation (EU) 2016/425/UE and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged personal protective equipment must be replaced immediately.

#### Hand and body protection

Wear protective gloves resistant to chemicals in accordance with EN 374 (breakthrough time > 480 minutes). Recommended glove material: butyl rubber or neoprene with a thickness of 0,5 mm, nitrile-butadiene rubber with a thickness of 0,35 mm, PVC, polyethylene, ethyl-vinyl copolymer.

In case of shortterm exposure: recommended gloves with protection class 3 or higher.

In case of prolonged contact: recommended gloves with protection class 5 or higher.

Protective clothing in accordance with EN 13688 and safety shoes according to EN 20346.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

#### Eye protection

Wear tightly fitting glasses in accordance with EN 166.

#### Respiratory protection

A properly fitted, self-contained breathing apparatus or air filter should be used when a risk assessment indicates this is necessary. The selection of the respiratory mask should be made on the basis of the known or expected level of exposure, the danger of the product and the safety limits of the selected mask. Protection classes (class 1/protection against vapours with a concentration in the air volume not exceeding 0,1 %, class 2/protection against vapours with a concentration in the air not exceeding 0,5 %, class 3/protect against vapours at concentrations in the air volume to 1 %). In cases where the oxygen concentration is 19 % and/or maximum concentration of toxic substances in the air is 1,0 % by volume, isolating equipment should be used with A type filter is recommended.

#### Thermal hazards

~~Wear thermal protective gloves when working with hot product. If there is a risk of eye contamination with hot, molten product, use tightly fitting protective glasses in accordance with EN 166.~~

# Safety Data Sheet

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state::	liquid
Colour:	pale yellow
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling	the product is not classified in terms of flammability
Flammability:	not determined
Lower and upper explosion limit:	not determined
Flash point:	205 °C
Auto-ignition temperature	not determined
Decomposition temperature::	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	not determined
Partition coefficient n-octanol/water :	not determined
Vapour pressure:	0,2 hPa
Density and/or relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

### 9.2. Other information

#### Other safety features

Volatile organic compound content :	20,48 %
Organic solvent content :	20,5 %
Burning temperature:	457 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Product is reactive. It can polymerize with the increase of temperature. See also subsections 10.310.5

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

In contact with water, it reacts with the release of carbon dioxide. Strong reaction with all groups of compounds containing active hydrogen, such as alcohols, amines, acids, bases, while releasing large amounts of heat.

### 10.4. Conditions to avoid

Avoid sources of heat, direct sunlight. Protect from water and moisture.

### 10.5. Incompatible materials

Water, strong oxidants, acids, bases, copper, amines, alcohols

### 10.6. Hazardous decomposition product

They are not known

# Safety Data Sheet

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## SECTION 11: Toxicological information

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

#### Acute toxicity

ftriethyl phosphate (V) [CAS 78-40-0].	
LD <sub>50</sub> (orally, rat)	1600 mg/kg
LC <sub>50</sub> (inhalation, rat)	> 8817 mg/m <sup>3</sup> /4h
LD <sub>50</sub> (leather, rabbit)	> 20000 mg/kg

diizocyjanian 4,4'-metylenodifenylu, oligomery	
LD <sub>50</sub> (orally, rat)	

Mixed	
ATE <sub>mix</sub> (oral route)	> 2000 mg/kg
ATE <sub>mix</sub> (inhalation, vapors)	11 mg/l

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

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

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

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

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

May cause damage to organs respiratory system through prolonged or repeated exposure inhalation.

#### Aspiration hazard

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

#### Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

# Safety Data Sheet

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## Delayed and immediate effects as well as chronic effects from short and long-term exposure

High concentrations can cause headache, dizziness and nausea. Prolonged or repeated skin contact may cause hypersensitivity. Prolonged or repeated inhalation exposure may cause asthma. Susceptible individuals who suffer from asthma or bronchial hyper-reactivity should not work with this product. Breathing symptoms may occur within several hours after exposure.

### 11.2. Information on other risks

#### Endocrine disrupting properties

Components of the mixture are not evaluated as substances with endocrine disrupting properties.

#### Other information

No other hazards are known.

## SECTION 12: Environmental information

### 12.1. Toxicity

triethyl phosphate (V) [CAS 78-40-0].		
LC <sub>50</sub> (fish)	2100 mg/l / 96 h / <i>Alburnus alburnus</i>	method: —
EC <sub>50</sub> (invertebrates)	900 mg/l / 24 h / <i>Daphnia magna</i>	method: —
NOEC (invertebrates)	31,6 mg/l / 21 days / <i>Daphnia magna</i>	method: —
EC <sub>50</sub> (algae)	901 mg/l / 72 h / <i>Scenedesmus subspicatus</i>	method: —
EC <sub>10</sub> (microorganisms)	2985 mg/l / — / <i>Pseudomonas putida</i>	method: —
<b>Mix</b>		
The product is not classified as hazardous to the aquatic environment.		

### 12.2. Persistence and degradability

No data.

### 12.3. Bioaccumulative potential

triethyl phosphate (V) CAS 78-40-0	log Po/w = 1,11	method: —
	BCF = <1,3	method: —

### 12.4. Mobility in soil

The product is heavier than water and sinks to the bottom, where it reacts at the interface. The reaction produces a chemically inert, non-biodegradable solid.

### 12.5. Results of PBT and vPvB assessment

The components of the mixture do not meet the PBT or vPvB criteria according to Annex XIII of REACH.

### 12.6. Endocrine disrupting properties

The components of the mixture are not evaluated as endocrine disruptors.

### 12.7. Other harmful effects

The mixture is not classified as posing a threat to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment should be considered (e.g. effects on the increase of global warming).



# Safety Data Sheet

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## SECTION 13: Waste handling

### 13.1. Waste disposal methods

#### Product recommendations

Waste product should be recycled or disposed of in authorized incinerators or waste disposal/disposal facilities in accordance with applicable regulations. Do not discharge into the sewage system.

#### Recommendations for used packaging

Perform recovery / recycling / disposal of packaging waste in accordance with applicable regulations. Only packaging that is completely empty can be intended for recycling.

National legal acts: the Law on Waste (i.e.: OJ 2022.699, 1250), the Law on Packaging Management (i.e.: OJ. 2020.1114, 2361, as amended).

EU legal acts: directives of the European Parliament and the Council: 2008/98/EC, as amended, and 94/62/EC, as amended.

#### Proposed waste codes

The waste code should be assigned at the place of its generation.

## SECTION 14: Information on transportation

### 14.1. UN number or ID number

Not applicable, the product is not dangerous during transportation.

### 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

Not applicable.

### 14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable.

Other

#### information

Not applicable.

## SECTION 15: Regulatory information

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

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

Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws 2022.1816).

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 (Journal of Laws 2018, item 1286, as amended).

Act of December 14, 2012 on waste (Journal of Laws 2022.699, 1250).

Act of June 13, 2013 on packaging and packaging waste management (i.e., Journal of Laws 2020.1114, 2361, as amended).

Regulation of the Minister of Climate of January 2, 2020 on the waste catalog (OJ 2020, item 10). Ordinance of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws 2011, No. 33, item 166, as amended).

ADR agreement on the international carriage of dangerous goods by road.

# Safety Data Sheet

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

IMDG Code International Maritime Dangerous Goods Code  
 IATA Dangerous Goods Regulations  
 1907/2006/EC Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and No. 1488/94, as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.  
 1272/2008/EC Regulation of the European Parliament and of the Council of December 16, 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended.  
 2020/878/EU Commission Regulation 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.  
 2000/39/EC Commission Directive of June 8, 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EEC on the protection of the health and safety of workers from the risks related to chemical agents at work. 2019/1831/EU Commission Directive of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values in accordance with Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

2008/98/EC Directive of the European Parliament and of the Council of November 19, 2008 on waste and repealing certain directives, as amended.

94/62/EC Directive of the European Parliament and of the Council of December 20, 1994 on packaging and packaging waste, as amended.

2016/425/EU Regulation of the European Parliament and of the Council of March 9, 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Components of the mixture are not included in Annex XVII of REACH. Components of the mixture are not included in Annex XIV of the REACH Regulation..

## 15.2. Chemical safety assessment

A chemical safety assessment is not required for the mixture.

## SECTION 16: Other information

EUH204	Contains isocyanates. May cause an allergic reaction.
H302	Harmful if swallowed.
H315	Has an irritating effect on the skin.
H317	May cause an allergic skin reaction.
H319	Causes eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties due to inhalation.
H335	May cause irritation of the respiratory tract.
H351	It is suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
Note C	Some organic substances may be marketed either as a specific isomeric form or as a mixture of several isomers.

### Explanation of abbreviations and acronyms

ADR	European Agreement concerning the international carriage of dangerous goods by road.
DNEL	Derivative Non-derivative Level.
EC <sub>10</sub>	Statistically calculated concentration of a chemical in an environmental medium, capable of producing specific effects in 50% of the test organisms of a population under specified conditions.
EC <sub>50</sub>	(Medial effective concentrations) - statistically calculated concentrations of a chemical in an environmental medium, capable of producing specific effects in 50% of the test organisms of a given population under specific conditions.

# Safety Data Sheet

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

EN	European Standard.
IATA	International Civil Aviation Organization / International Association of Air Carriers.
IMDG	International Maritime Dangerous Goods Code.
ISO	International Organization for Standardization.
LC <sub>50</sub>	Concentration at which death is observed in 50% of the test organisms.
LD <sub>50</sub>	The dose at which the death of 50% of the test organisms is observed.
NOEC	The highest concentration for which there is no significant increase in the frequency or severity of the effects of a substance in test organisms relative to a control sample.
PBT	Persistent, bioaccumulative and toxic substance.
PNEC	Predicted No-change Concentration.
RID	Regulations for the international carriage of dangerous goods by rail.
vPvB	Very persistent substances with very high bioaccumulation capacity.
Acute Tox. 4	Acute toxicity - category 4
Carc. 2	Carcinogenicity - category 2
Eye Irrit. 2	Eye irritation - category 2
Resp. Sens. 1	Respiratory sensitization - category 1
STOT RE 2	Toxic effects on target organs repeated exposure - category 2
STOT SE 3	Toxic effects on target organs single exposure - category 3
Skin Irrit. 2	Skin irritation - category 2
Skin Sens. 1	Skin sensitization - category 1

## Training

Before working with the product, the user should familiarize himself with the rules of health and safety regarding the handling of chemicals, and in particular, receive appropriate job training.

## References to key literature and data sources

The safety data sheet was prepared on the basis of the safety data sheet provided by the manufacturer, literature data, Internet databases (e.g. ECHA, TOXNET, COSING) and the knowledge and experience possessed, taking into account the current legislation.

## Procedures used to classify the mixture in accordance with EC Regulation 1272/2008, as amended.

Skin Irrit. 2 H315	calculation method
Skin Sens. 1 H317	calculation method
Eye Irrit. 2 H319	calculation method
Acute Tox. 4 H332	calculation method
Resp. Sens. 1 H334	calculation method
STOT SE 3 H335	calculation method
Carc. 2 H351	calculation method
STOT RE 2 H373	calculation method

## Additional

### information

Card issued by: THETA Consulting Sp. z o.o.

The above information was created on the basis of currently available data characterizing the product and the experience and knowledge possessed by the manufacturer in this regard. They do not constitute a qualitative description of the product or a promise of specific properties. They should be regarded as an aid to safe handling in transportation, storage and use of the product. This does not relieve the user of responsibility for the misuse of the above information and for compliance with all legal standards applicable in this field.