

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

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

1.1. Product identifier

Trade name:	MetalPlex (resin)
UFI:	2200-U0CW-500Y-Q3K3

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

Relevant identified uses:	an adhesive; industrial use.
Uses advised against:	not determined.

1.3. Details of the supplier of the safety data sheet

Supplier:	3D System
Address:	ul. Paluch 24, 02-147 Warszawa, PL
Telephone/fax:	+48 22 652 60 11

E-mail address for a competent person responsible for SDS: reklama@3dsystem.pl

1.4. Emergency telephone number

112 (general emergency telephone number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 2 H225, Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, STOT SE 3 H335 Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Hazard pictograms and signal words



Hazardous components placed on the label

Contains: methyl methacrylate; methacrylic acid.

<u>Hazard statements</u>

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container to properly labelled waste containers according to national law.



Additional information

None.

2.3. Other hazards

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: 80-62-6 EC number: 201-297-1 Index number: 607-035-00-6 Registration number: 01-2119452498-28-XXXX	methyl methacrylate ¹⁾ Flam. Liq. 2 H225, Skin Irrit. 2 H315, Skin Sens. 1 H317, STOT SE 3 H335	60 ≤ C ≤97 %
CAS number: 79-41-4 EC number: 201-204-4 Index number: 607-088-00-5 Registration number: 01-2119463884-26-XXXX	methacrylic acid Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1A H314 Specific concentration limits: STOT SE 3 H335: C \geq 1%	1% ≤ C < 3 %

¹⁾ Substance with occupational exposure limits established on the European Union level.

Full text of each H phrase is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with skin

Take off contaminated clothing. Wash the exposed parts of the skin thoroughly with water and soap. Consult a doctor if disturbing symptoms appear.

Contact with eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for 10 - 15 minutes. Avoid powerful water stream – risk of cornea damage. Consult a ophthalmologist if disturbing symptoms appear.

Ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, show the packaging or label.

After inhalation

Remove the victim to fresh air, keep warm and at rest. Consult a doctor if disturbing symptoms appear.

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

Contact with skin

The product may cause redness, burning sensation, irritation, allergic reaction.

Contact with eyes

The product may cause burning sensation, irritation, tearing.



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Ingestion

May cause nausea, vomiting, abdominal pains, diarrhea.

After inhalation

High concentration of vapours and mists may cause respiratory irritation.

Effects of exposure

There are no known effects other than those mentioned above.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

<u>Suitable extinguishing media:</u> carbon dioxide, water spray, extinguishing foam resistant to alcohols, extinguishing powder. <u>Unsuitable extinguishing media:</u> water jet – risk of the propagation of the flame.

5.2. Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. carbon monoxides, other hazardous unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3. Advice for firefighters

Highly flammable liquid and vapour. Vapours are heavier than air, they accumulate in the lower parts of the premises and pose a risk of explosion. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Cool down the containers that are endangered by fire with a water spray from a safe distance. Collect used extinguishing media.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of large spills, isolate the exposed area. Use personal protective equipment. Do not breathe vapours. Eliminate all sources of ignition - do not use an open flame, do not smoke, do not use sparking tools, etc. Caution: risk of slipping on the released product.

6.2. Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

<u>Small leakage</u>: collect the spilled product with incombustible absorbing materials (e.g. sand, earth, universal binding agents, silica etc.) and place it in waste containers. Treat the collected material as waste. Clean and ventilate the contaminated area. <u>Large leakage</u>: isolate places where liquid accumulates; pump the collected liquid out.

6.4. Reference to other sections

Personal protective equipment - see section 8. Appropriate conduct with waste product - see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Use personal protective equipment. Avoid eyes and skin contamination. Avoid vapor formation. Keep the unused containers tightly closed. Eliminate sources of ignition - do not use an open flame, do not smoke, do not use sparking tools and clothes made of fabrics susceptible to static electricity. Provide general and / or local ventilation in the workplace in order to maintain the concentration of the harmful agent in the air below the established limit values.



7.2. Conditions for safe storage, including any incompatibilities

Store in properly labeled, sealed packages in a dry, cool and well-ventilated place. Container that is opened should be properly resealed and kept upright to prevent leakage. Keep away from incompatible materials (see subsection 10.5). Keep away from, foodstuffs and animal feed . Avoid sources of heat and direct sunlight. Protect from frost. Keep away from sources of fire. Smoking, using open fire and sparking tools is prohibited in the warehouse. Recommended storage temperature: 20 - 60 °C.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limit Values

	Specification	TWA 8 hour	STEL 15 min	Notation
I	methyl methacrylate	50 ppm	100 ppm	_

Legal Basis: 91/322/EEC as amended, 98/24/EC as amended, 2000/39/EC as amended, 2004/37/EC as amended.

Recommended control procedures

Procedures for monitoring concentrations of hazardous components in the air and procedures for monitoring air purity in the workplace should be applied - if available and justified at a given position - in accordance with the relevant national or European Standards, taking into account the conditions at the site of exposure and the appropriate measurement methods adapted to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements of the appropriate laws.

DNEL and PNEC

methyl methacrylate [C	AS 80-62-6]		
Francisco activity	Function achieved	DNEL	
Exposure route	Exposure scheme	worker	consumer
inhalation	long-term systemic	348,4 mg/m³	74,3 mg/m³
inhalation	long-term local	208 mg/m ³	104 mg/m ³
inhalation	short-term local	416 mg/m ³	208 mg/m ³
oral	long-term systemic	_	8,2 mg/kg bw/day
skin	long-term systemic	13,67 mg/kg bw/day	8,2 mg/kg bw/day
skin	long-term local	1,5 mg/cm²	1,5 mg/cm ²
skin	short-term local	1,5 mg/cm²	1,5 mg/cm²
methyl methacrylate (C	AS 80-62-6]		
PI	NEC	Value	
marine water		0,094 mg/l	
freshwater		0,94 mg/l	
soil		1,48 mg/kg dry weight	
freshwater sediment		10,2 mg/kg dry weight	
marine water sediment		0,102 mg/kg dry weight	
sewage treatment plant	:	10 mg/l	
freshwater (intermittent	termittent release) 0,94 mg/l		



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methacrylic acid [CAS]	79-41-4]		
Fundational manufacture	Function achieved	DNEL	
Exposure route	Exposure scheme	worker	consumer
inhalation	long-term local	88 mg/m ³	6,55 mg/m³
inhalation	long-term systemic	29,6 mg/m ³	6,3 mg/m³
skin	long-term systemic	4,25 mg/kg bw/day	2,55 mg/kg bw/day
methacrylic acid [CAS]	79-41-4]		
PNEC		Value	
marine water		0,82 mg/l	
freshwater		0,82 mg/l	
soil		1,2 mg/kg dry weight	
sewage treatment plant	:	10 mg/l	

8.2. Exposure controls

Industrial hygiene

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace. If during work processes there is a risk of clothing fire on the employee - no more than 20 m in a horizontal line from the stations where these processes are performed, emergency showers (safety showers) for washing the whole body and separate showers (showers) for eye washing should be installed. Do not allow vapours to concentrate in the air and to create concentrations within the limits of explosive properties or exceeding the OEL values.

0,82 mg/l

Individual protection measures

freshwater (intermittent release)

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 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 PPE must be replaced immediately.

Hand protection

Use protective gloves resistant to chemicals according to EN 374. In case of a short exposure, use protective gloves with 2nd or higher level of effectiveness (breakthrough time > 30 min). In case of a long exposure, use protective gloves with 6th level of effectiveness (breakthrough time > 480 min). Recommended material for gloves: nitrile rubber, thickness 0,5 mm. Select the material for the gloves individually at the workplace.

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.

Body protection

Use skin protection measures adequate to the existing thermal, chemical or mechanical hazards. Depending on the performed task, use protective clothing appropriate to the potential hazard. In case of a prolonged contact with the product, use protective clothing made of coated or impregnated fabrics.

Eye protection

Use safety glasses in accordance with EN 166.



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Respiratory protection

In case of the formation of vapours and aerosols, use absorbing equipment or absorbing and filtering equipment with a suitable protection class (class 1/protection against gases or vapours with a concentration in the air volume not exceeding 0.1%, class 2 / protection against gases or vapours with a concentration in the air not exceeding 0.5%, class 3 / protect against gases or vapours at concentrations in the air volume to 1%). In cases where the oxygen concentration is \leq 19% and / or maximum concentration of toxic substances in the air is \geq 1.0% by volume, isolating equipment should be used. Recommended filter: ABEK.

Thermal hazards

Not applicable.

Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	acc. to the assortment
Odour:	characteristic
Melting point/freezing point:	~ -48 °C
Boiling point or initial boiling point and boiling	
range:	~ 100 °C
Flammability:	highly flammable
Lower and upper explosion limit:	not determined
Flash point:	~ 21 °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 (log value):	not applicable
Vapour pressure:	not determined
Density and/or relative density:	~ 1,015 g/cm³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

No additional tests.

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is reactive. Product's vapours may form explosive mixtures with air. Increased temperature can cause polymerization. See also subsection 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Hazardous reactions are not known.



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10.4. Conditions to avoid

Avoid heat sources, open flames, sparking tools and direct sunlight. Avoid temperatures: > 60 °C.

10.5. Incompatible materials

Avoid contact with following materials: strong oxidants, strong acids, strong bases, peroxides, amines.

10.6. Hazardous decomposition products

Not known.

SECTION 11: Toxicological information

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

Acute toxicity	
methyl methacrylate [CAS 80-62-6]	
LC₅₀ (inhalation, rat)	29,8 mg/l/4h
LD₅₀ (skin, rabbit)	> 5000 mg/kg
methacrylic acid [CAS 79-41-4]	
LC50 (inhalation, rat)	7,1 mg/l/4h
LDso (oral, rat) 1320 mg/kg	
D₅o (skin, rabbit) 500 mg/kg	
Mixture	
ATE _{mix} (ingestion)	> 2 000 mg/kg

ATE _{mix} (skin)	> 2 000 mg/kg
ATE _{mix} (ingestion)	> 2 000 mg/kg

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

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

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Symptoms related to the physical, chemical and toxicological characteristics See subsection 4.2 of the SDS.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> See subsection 4.2 of the SDS.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Other information

No data on other hazards.

SECTION 12: Ecological information

12.1. Toxicity

methyl methacrylate [CAS 80-62-6]			
LC₅₀ (fish)	79 mg/l / 96 h / Oncorhynchus mykiss	method: —	
EC₅₀ (invertebrates)	69 mg/l / 48 h / Daphnia magna	method: EPA OTS 797.1300	
NOEC (invertebrates)	37 mg/l / 21 days / Daphnia magna	method: OECD 211	
EC₅₀ (algae)	> 110 mg/l / 72 h / Pseudokirchneriella subcapitata	method: OECD 201	
NOEC (fish)	9,4 mg/l / 35 days / Danio rerio method: OECD 210		
methacrylic acid [CAS 79-41-4]			
LC50 (fish)	85 mg/l / 96 h / Oncorhynchus mykiss	method: EPA OTS 797.1400	
NOEC (fish)	10 mg/l / 35 days / Danio rerio	method: OECD 210	
EC₅₀ (invertebrates)	> 130 mg/l / 48 h / Daphnia magna	method: EPA OTS 797.1300	
NOEC (invertebrates)	53 mg/l / 21 days / Daphnia magna	method: OECD 211	
EC₅o (algae)	20 mg/l / 72 h / Pseudokirchneriella subcapitata	method: OECD 201	
EC₅₀ (microorganisms)	270 mg/l / 17 h / Pseudomonas putida	method: DIN 38412-8	
Mixture			
The product is not classified as h	nazardous to the aquatic environment.		

12.2. Persistence and degradability

methyl methacrylate CAS 80-62-6	Biodegradable	94%/14 days	method: OECD 301C
methacrylic acid CAS 79-41-4	Biodegradable	86%/28 days	method: OECD 301D

12.3. Bioaccumulative potential

methyl methacrylate CAS 80-62-6	log Po/w = 1,38	method: —
	BCF = —	method: —



[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

methacrylic acid	log Po/w = 0,93	method: —
CAS 79-41-4	BCF =	method: —

12.4. Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, global warming potential).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

The waste product should be recovered or disposed of in authorized incineration plants or waste disposal / neutralization plants, in accordance with applicable regulations. Do not empty into drains.

Recommendations for used packaging

Reuse / recycle / eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused.

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

Recommended waste codes

08 04 09*:	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*:	packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1. UN number or ID number

UN 1133

14.2. UN proper shipping name

ADR ADHESIVES IMDG ADHESIVES ICAO/IATA ADHESIVES

14.3. Transport hazard class(es)

3

14.4. Packing group

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[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

14.5. Environmental hazards

ADR	no
IMDG	no
ICAO/IATA	no

14.6. Special precautions for user

Use personal protective equipment according to section 8 when handling the product. Avoid sources of heat and fire.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.		
Additional data		
ADR	limited quantity LQ	5 L
	transport category	3
	tunnel restriction code	(D/E)
IMDG	limited quantity LQ	5 L
	EmS code	F-E, S-D
ICAO/IATA	packing instruction (LQ)	Y344
	limited quantity (LQ)	10 L
	packing instruction, passenger	355
	maximum quantity, passenger	60 L
	packing instruction, cargo	366
	maximum quantity, cargo	220 L

SECTION 15: Regulatory information

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

ADR Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG Code International Maritime Dangerous Goods Code

IATA Dangerous Goods Regulations

1907/2006/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), 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).

1272/2008/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling 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 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.. 2008/98/EC DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives (as amended).

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended 2016/425/EU REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The components of the mixture are not included in Annex XVII of the REACH Regulation.

The 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 mixtures.



[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

SECTION 16: Other information

Full text of H phrase	es mentioned in section 3
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
Clarification of abbr	eviations and acronyms
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road.
DIN	German Institute for Standardization
DNEL	Derived No-Effect Level.
EC50	(median effective concentration) - statistically calculated concentration of a chemical substance in an environmental medium that can cause specific effects in 50% of the tested organisms of a given population under certain conditions.
EN	European standard
IATA	The International Air Transport Association.
IMDG	International Maritime Dangerous Goods Code.
ISO	International Organization for Standardization
LC50	Concentration of a substance that is lethal to 50 percent of the organisms in a toxicity test.
LD₅o	Dose of a substance that is lethal to 50 percent of the organisms in a toxicity test.
NOEC	The highest concentration that does not cause a statistically significant adverse effect in the exposed population, when compared with its appropriate control.
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic substance.
PNEC	Predicted no-effect concentration.
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail.
UFI	Unique Formula Identifier
vPvB	Very persistent and very bioaccumulative substance.
Acute Tox. 4	Acute toxicity - category 4
Eye Irrit. 2	Eye irritation - category 2
Flam. Liq. 2	Flammable liquid - category 2
STOT SE 3	Specific target organ toxicity — single exposure - category 3
Skin Corr. 1A	Skin corrosion - category 1A
Skin Irrit. 2	Skin irritation - category 2
Skin Sens. 1	Skin sensitization - category 1

<u>Trainings</u>

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Personnel related with the transport of hazardous substances in accordance with the ADR agreement should be trained and should obtain proper certification in a range of their obligations (general training, workplace training).

Key literature references and sources of data

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

Procedures used for the mixture classification according with Regulation 1272/2008/EC as amended

Flam. Liq. 2 H225 on basis of test data	
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[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

Skin Irrit. 2 H315	calculation method
Skin Sens. 1 H317	calculation method
Eye Irrit. 2 H319	calculation method
STOT SE 3 H335	calculation method
Additional information	
Changes:	_
SDS issued by:	THETA Consulting Sp. z o.o.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.