

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product ID

3D Printing UV Sensitive Resin

Alternative names: Standard Resin, Basic

UFI: 9N10-J0V7-G003-DCR2

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

~~Identified uses:~~ Use with 3D printers.

SU 22 Professional applications.

~~Uses advised against:~~ All uses not mentioned in this section or in section 7.

1.3 Details of the supplier of the safety data sheet

Investor Group Sp. z o. o. Limited Partnership

ul. Soltysowska 12B/LU4

31-589 Krakow

Tel: 510 126 100

Email: sklep@3duv.pl

1.4 Emergency telephone number

Emergency number in Poland (open 8:00 a.m. - 4:00 p.m.): +48 510 126 100

112 (emergency telephone number), 998 (fire brigade), 999 (medical emergency)

2 SECTION 2: HAZARD IDENTIFICATION

2.1

Classification of the substance or mixture

~~Classification according to Regulation (EC) No 1272/2008:~~ _____

~~Hazards resulting from physicochemical properties:~~ _____

The mixture is not classified as hazardous in terms of physicochemical properties.

~~Health hazards Skin~~ _____

irritation Hazard category 2 [Skin Irrit. 2]

Causes skin irritation. (H315)

Skin sensitisation hazard category 1 [Skin Sens.1]

May cause an allergic skin reaction. (H317)

Eye irritation Hazard category 2 [Eye Irrit. 2]

Causes serious eye irritation. (H319)

~~Environmental hazards:~~ _____

The mixture does not pose a hazard to the environment. No environmental effects are known or expected under normal conditions of use.

2.2 Signage elements

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

Pictogram



GHS07

Signal word: ATTENTION

~~Names of hazardous ingredients on the label:~~ _____

MATERIAL SAFETY DATA SHEET	Update date: 18/04/2025
	VERSION: 2.0/PL
prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	

Contains: 2-oxapyranone homopolymer, 2-[[[(1-oxo-2-propen-1-yl)oxy]ethyl ester; 2,2'-diacrylate (ethylenedioxy)diethyl; triethyleneglycol diacrylate; 2-[[[2,2-bis[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statement(s) (H)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary Statement(s) (P)

Prevention

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

Removal:

P501 Dispose of contents or container to an authorized waste disposal facility.

Supplementary hazard statements:

EUH205 Contains epoxy ingredients. May cause an allergic reaction.

2.3 Other threats

The substances contained in the product do not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

PBT substances (persistent, bioaccumulative and toxic substances)

vPvB substances (very persistent and very bioaccumulative substances)

Ecological information:

The mixture does not contain any components considered to have **endocrine-active properties for the environment**, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information:

The mixture does not contain ingredients considered to have **endocrine disrupting properties** under Article 57(f) of REACH Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100 at levels of 0.1% or higher.

3 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:

Not applicable.

3.2 Mixture

Identification numbers	Chemical name	mass fraction in %	Classification according to Regulation (EC) No 1272/2008		
			Pictogram, signal word codes	Hazard Class and Category Codes	Hazard statement codes
CAS: 110489-05-9 EC (EINECS): 600-970-0 Index number: Proper registration number:	Oxapyranone 2- homopolymer, ester 2-[[[(1-oxo-2-propene-1-yl)oxy]ethyl	40-50	GHS07 Wng	Skin Irrit 2 Skin Sens. 1 Eye Irrit 2	H315 H317 H319
CAS: 1680-21-3 EC (EINECS): 216-853-9 Index number: 607-126-00-0 Proper registration number:	(Ethylenedioxy)diethyl 2,2'- diacrylate; triethyleneglycol diacrylate	20-30	GHS07 Wng	Skin Irrit 2 Skin Sens. 1 Eye Irrit 2	H315 H317 H319
CAS: 28961-43-5 EC (EINECS): 500-066-5 Index number:	Ethoxylated hydroxymethylpropane acrylate	10-25	The substance does not pose a threat		

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Proper registration number:					
CAS: 94108-97-1	2-[[2,2-bis[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	<10	GHS07 Wng	Skin Irrit 2 Eye Irrit 2 STOT SE 3	H315 H319 H335
EC (EINECS): 302-434-9					
Index number:					
Proper registration number:					
CAS: 84434-11-7	Diphenyl oxide (2,4,6-trimethylbenzoyl)phosphine	<2.5	GHS09 GHS07 Wng	Skin Sens. 1B Aquatic Chronic 2	H317 H411
EC (EINECS): 282-810-6					
Index number					
Proper registration number:					

The full text of H phrases is given in section 16 of the Safety Data Sheet.

4 SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General recommendations:	Symptoms of poisoning may appear after several hours, so medical observation for at least 48 hours from the time of exposure is recommended. If any symptoms occur and persist after first aid has been administered as recommended below, seek medical advice immediately.
Inhalation:	Remove or carry the injured person from the exposure area, place them in a comfortable semi-reclining or sitting position, keep them calm, and protect them from heat loss. Call a physician immediately.
Skin contact:	Remove contaminated clothing and wash skin thoroughly with lukewarm, running water. Appropriate safety showers should be available in the workplace.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses. Avoid strong water jets due to the risk of mechanical damage to the cornea. If irritation persists, consult an ophthalmologist.
Gastrointestinal tract:	If large amounts are swallowed, do not induce vomiting without consulting a doctor. Rinse mouth with plenty of water. Contact a doctor.

4.2 Most important acute and delayed symptoms and effects of exposure

Eye contact:	In case of high vapor concentration or direct contact, eye irritation may occur (redness, burning, tearing, pain).
In contact with skin:	May cause allergic skin reaction.
After inhalation:	Inhalation of vapors may cause irritation of the respiratory tract and mucous membranes (cough, dizziness, drowsiness).
After swallowing:	May cause irritation of the gastrointestinal tract (nausea, vomiting, diarrhea).

4.3 Indication of any immediate medical attention and special treatment needed injured parties

Show the safety data sheet or label/packaging to the medical personnel providing assistance. Treat symptomatically.

5 SECTION 5: PROCEDURE IN CASE OF FIRE**5.1 Extinguishing media**

Suitable extinguishing media:

Use: water mist, extinguishing powders, extinguishing foams, sand, CO2 to extinguish flames.

Inappropriate extinguishing media:

Do not use dense streams of water.

5.2 Special hazards arising from the substance or mixture

Combustion may produce toxic combustion products, including carbon monoxide and other unidentified thermal decomposition products. Do not inhale combustion products; they may be hazardous to human health.

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

5.3 Information for the fire brigade

General protective measures typical in the event of a fire. Do not stay in a fire-endangered area without appropriate chemical-resistant clothing and self-contained breathing apparatus.

Cool fire-endangered containers from a safe distance with a water spray. Collect used extinguishing media. Prevent extinguishing water from entering sewers, surface water, or groundwater.

6 SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Limit access by bystanders

to the breakdown area until appropriate cleanup operations are completed. In case of large spills, isolate the affected area. Avoid direct contact with the released product. Avoid inhaling vapors. Use personal protective equipment. Ensure adequate ventilation. Danger of slipping on spilled product.

For those providing assistance:

Ensure that only trained personnel remove the fault and its effects. Use personal protective equipment.

6.2 Environmental precautions

In the event of a large release of the mixture, appropriate measures must be taken to prevent its spread into the environment. Do not allow the product to enter the sewage system. Notify appropriate emergency services.

6.3 Methods and materials for containment and removal of contamination

Absorb the product using absorbent materials (e.g., sand, earth, universal binders, silica, etc.) and place it in waste containers. Treat the collected material as waste. Clean and thoroughly ventilate the contaminated area.

6.4 References to other sections

For personal protective equipment, see section 8. Dispose of as directed in section 13.

7 SECTION 7: HANDLING AND USE OF SUBSTANCES AND MIXTURES STORAGE**7.1 Precautions for safe handling**

Ensure adequate ventilation in the workplace. Use personal protective equipment as required – see section 8 for details. Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing.

Take particular care to avoid contact with incompatible materials – see section 10.

Use process controls to minimize unnecessary waste (temperature, concentration, pH, contact time). Avoid product release into the environment.

Contaminated workwear should not be taken outside the workplace. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Smoking is prohibited.

7.2 Conditions for safe storage, including information on any mutual inconsistencies

Store in a dry, cool, and well-ventilated place. Keep away from incompatible materials – see section 10. When storing larger quantities, it is recommended to protect the storage area from possible soil and water contamination in the event of a leak.

Heat and ignition sources: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Packaging materials: Keep only in original packaging.

7.3 Specific end use(s)

Product intended for 3D printers.

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

8 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

The product does not contain substances for which occupational exposure limit values (OEL, OELCh) have been given.

Legal basis:

Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment [Journal of Laws 2018, item 1286 of 2018.07.03, as amended. Including Journal of Laws of 2020, item 61 and Journal of Laws of 2021, item 325, and Journal of Laws of 2023, item 1661]

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2011, No. 33, item 166, **consolidated act: Journal of Laws of 2023, item 419**).

Value and DNEL and PNEC:

No data available.

Recommended monitoring procedures

Procedures for monitoring the concentrations of hazardous components in the air and procedures for controlling air cleanliness in the workplace should be applied - if available and justified for a given position - in accordance with the relevant Polish or European Standards, taking into account the conditions at the exposure site and appropriate measurement methodology adapted to the working conditions. The procedure, type and frequency of tests and measurements should meet the requirements contained in the Regulation of the Minister of Health of 2 February 2011 (Regulation of the Minister of Health of 2 February 2011 (Journal of Laws of 2011 No. 33 item 166, **consolidated act: Journal of Laws of 2023 item 419**).

8.2 Exposure Controls**8.2.1 Appropriate engineering controls**

Use appropriate technical and organizational measures to limit emissions, dispersion, and user exposure. Work only in conditions that ensure effective ventilation – preferably outdoors or in a well-ventilated room. For detailed instructions on safe handling, see Section 7.

8.2.2 Individual protection measures, such as personal protective equipment

When the concentration of hazardous substances is determined and known, personal protective equipment (PPE) should be selected taking into account the concentration of the substance present at a given workstation, the duration of exposure, the activities performed by the employee, and the recommendations provided by the PPE manufacturer. In an emergency or when the concentration of the substance at the workstation is unknown, PPE that isolates the body should be used (a gas-tight suit complete with isolating respiratory protective equipment).

Respiratory tract: Based on the hazard and potential exposure risk, select a respirator that meets the appropriate standard or certification. Respirators must be used in accordance with a respiratory protection program to ensure proper fit, training, and other important aspects of use.

Hand protection: Chemical-resistant, impermeable gloves complying with an approved standard should be worn at all times when handling chemical products when a risk assessment indicates this is necessary.

Taking into account the parameters specified by the glove manufacturer, it is necessary to check during use whether the gloves still maintain their protective properties. It should be noted that the breakthrough time for any given glove material may vary between glove manufacturers. In the case of mixtures consisting of several substances, it is impossible to precisely estimate the glove's protection time.

Other protection measures: Appropriate footwear and any additional skin protection measures should be selected according to the task being performed and the risks involved and should be approved by a specialist before handling this product.

MATERIAL SAFETY DATA SHEET	Update date: 18/04/2025
	VERSION: 2.0/PL
prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	

Body protection:	Personal body protection should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye Protection:	Safety glasses complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Occupational hygiene: General industrial hygiene regulations apply. Remove contaminated clothing after finishing work. Wash hands and face before work breaks. Wash the entire body thoroughly after work. Do not eat, drink, or smoke while working.

8.2.3 Environmental exposure control

Prevent discharge into municipal water and sewage systems and watercourses. Any emissions from ventilation systems and process equipment should be monitored to ensure they comply with environmental protection law requirements.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State of matter:	Liquid
Color:	Gray
Smell:	No smell
Melting/freezing point:	No data available
Boiling point and boiling range:	325 °C
Flammability of materials:	Non-flammable product
Lower and upper explosion limits: Flash point: Auto-ignition temperature [gases, liquids]: Decomposition temperature: pH: Kinematic	No data available 195 °C No data available No data available No data available
viscosity: Solubility:	No data available
Partition coefficient:	Insoluble in water. Soluble in ethanol.
n-octanol/water: Vapour pressure at 20 °C:	No data available
Vapour pressure at 50 °C: Density: Relative vapour density: Particle characteristics [solid]: 9.2 Other information	No data available No data available No data available No data available Not applicable [liquid]

9.2.1 Information on physical hazard classes

No data available.

9.2.2 Other safety features

No data available

10 SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions are expected as the product is stable under recommended storage conditions.
See section 7.

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

10.2 Chemical stability

Under normal conditions of use and storage, the product is stable.

10.3 Possibility of hazardous reactions

Under certain conditions, hazardous reactions leading to excessive temperature or pressure are not expected.

10.4 Conditions to avoid

Avoid heat, electrical sparks, open flames, and other ignition sources. Avoid exposure to sunlight.

For information on safe use and storage, see section 7.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Depending on decomposition conditions, complex mixtures of chemicals may be released: carbon dioxide (CO₂), carbon monoxide, and other organic compounds. For more information, see Section 5.

11 SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes defined in Regulation (EC) No 1272/2008****Toxicity of product ingredients**

2,2'-(ethylenedioxy)diethyl diacrylate: triethyleneglycol diacrylate

LD₅₀ (oral, rat): 500 mg/kg (source: NLM_CIP)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

LD₅₀ (oral, rat): > 5000 mg/kg (source: NICNAS)

LD₅₀ (dermal, rat): > 2000 mg/kg (source: NICNAS)

Acute toxicity of the product

Acute toxicity:

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

Skin corrosion/irritation:

Irritates the skin.

Serious eye damage/eye irritation:

Irritating to eyes.

Respiratory or skin sensitisation:

May cause allergic skin reaction.

Mutagenic effect on germ cells:

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

Carcinogenic effect:

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

Reproductive toxicity:

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

Specific target organ toxicity – single exposure:

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

Specific target organ toxicity – 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 Eye contact: In

case of high vapor concentrations or direct contact, eye irritation may occur (redness, burning, tearing, pain).

In contact with skin:

May cause allergic skin reaction.

After inhalation:

Inhalation of vapors may cause irritation of the respiratory tract and mucous membranes (cough, dizziness, drowsiness).

After swallowing:

May cause irritation of the gastrointestinal tract (nausea, vomiting, diarrhea).

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

11.2 Information about other threatsEndocrine disrupting properties:

The components of the mixture do not affect the functioning of the endocrine system in accordance with the assessment criteria set out in Regulations: (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information:

They are unknown.

12 SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Toxicity of product ingredients**

2-[2,2-bis[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate (CAS 94108-97-1)

Fish: LC₅₀ / 96 h: 1.2 mg/l (Cyprinus carpio) [static conditions] Source: ECHA

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS 84434-11-7)

Fish: LC₅₀ / 96 h: 1.89 mg/l (Danio rerio) [semi-static conditions] Source: ECHA

Toxicity of the mixture

The mixture does not pose a threat to the environment.

To minimize long-term global pollution, consider:

- Reducing the consumption of disposable products and packaging.
- Participation in recycling activities.
- Do not allow the product to enter water, sewage or soil.

12.2 Persistence and degradability

No data available for the mixture.

12.3 Bioaccumulative potential

No data available for the mixture.

12.4 Mobility in soil

The product exhibits low mobility. It is insoluble in water. The mobility of substances depends on their hydrophilic and hydrophobic properties as well as the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season (in Poland, in a variable temperate climate), and soil organisms, primarily bacteria, fungi, algae, and invertebrates.

12.5 Results of PBT and vPvB assessment

Does not meet the PBT and vPvB criteria

12.6 Endocrine disrupting properties

The product does not contain ingredients included in the list established in accordance with Article 59(1) as having endocrine disrupting properties or ingredients with endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1%.

12.7 Other harmful effects

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of individual components of the mixture on the environment should be considered (e.g., the ability to disrupt the hormonal system, the impact on global warming).

13 SECTION 13: WASTE CONSIDERATIONS**13.1 Waste disposal methods**Product disposal:

Waste generation should be avoided or minimized wherever possible. Significant quantities of waste product should not be disposed of via the sewer system but should be treated in a suitable treatment plant.

Please dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Packaging disposal:

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Packaging waste should be recycled. Dispose of the product and its packaging safely.

Use caution when handling emptied containers that have not been cleaned or rinsed out internally. Empty containers or their linings may retain product residue. Avoid contact of this material with soil, waterways, drains, and sewers.

The waste code should be determined at the place of its production.

Proposed mixture waste code:

07 07 04 * Other organic solvents, washing liquids and mother liquors.

Waste type code for packaging **15 01**

10* Packaging containing residues of or contaminated with hazardous substances.

Legal basis:

EU legal acts:

Directives of the European Parliament and of the Council: 2008/98/EC as amended, 94/62/EC as amended

National legal acts:

Act of 14 December 2012 on waste, as amended (Journal of Laws of 2023, item 1587, consolidated text).

Act of 13 June 2013 on the management of packaging and packaging waste (consolidated text Journal of Laws 2024, item 927). Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue **Journal of Laws 2020, item 10.**

14 SECTION 14: TRANSPORT INFORMATION**14.1 UN number or ID number**

The mixture is not subject to the regulations on the transport of dangerous goods contained in ADR (road transport), RID (rail transport), ADN (inland waterway transport), IMDG (sea transport), ICAO/IATA (air transport).

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

The product does not pose a hazard to the environment according to the criteria set out in the UN Model Regulations.

14.6 Special precautions for users

No special precautions.

14.7 Bulk maritime transport in accordance with IMO instruments

Not applicable.

15 SECTION 15: REGULATORY INFORMATION**15.1 Substance-specific safety, health and environmental regulations or mixtures****Other recipes**

1. Regulation (EC) **No 1907/2006** concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulations (EEC) No 793/93 and 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.

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

2. **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 on the Registration, Evaluation, Authorisation and Restriction of Chemicals.
3. **REGULATION (EC) No 648/2004** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.
4. **94/62/EC** Directive of the European Parliament and of the Council of 20 December 1994 on packaging and **packaging** waste , as amended.
5. **Regulation (EC) No 850/2004** of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC (as amended by subsequent regulations).
6. **Regulation (EC) No 1013/2006** of the European Parliament and of the Council of 14 June 2006 on shipments of waste (Waste Shipment Regulation).
7. **Regulation (EU) No 649/2012** of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals (PIC Regulation).
8. **Regulation (EC) No 1223/2009** of the European Parliament and of the Council of 30 November 2009 on products cosmetic.
9. **Regulation (EC) No 1272/2008** on classification, labelling and packaging of substances and mixtures (CLP), taking into account the latest ATP (Adaptation to Technical Progress).
10. **Directive 2012/19/EU** of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE Directive).
11. **Regulation (EU) 2019/1021** of the European Parliament and of the Council of 20 June 2019 on permanent organic pollutants (recast of Regulation (EC) No 850/2004).
12. **Regulation (EU) 2019/1148** of the European Parliament and of the Council of 20 June 2019 on the implementation to the trade and use of explosives precursors.
13. **Act of 13 April 2016** on the safety of trade in explosives precursors (Journal of Laws of 2016, item 669): Consolidated text **Journal of Laws 2019 item 994**
14. **Act of 25 February 2011** on chemical substances and their mixtures, **Journal of Laws 2011, No. 63, item 322, consolidated text. Journal of Laws 2022, item 1816.**
15. **Act of 13 June 2013** on the management of packaging and packaging waste (consolidated text, Journal of Laws 2024 item 927).
16. Act of 14 December 2012 **on waste (Journal of Laws of 2023, item 1587, consolidated text).**
17. **Regulation of the Minister of Economy of 5 November 2009** on detailed requirements for products aerosols (Journal of Laws 2009 No. 188, item 1460, as amended):
18. **Announcement of the Minister of Entrepreneurship and Technology of 15 April 2019** on the announcement of the consolidated text of the regulation of the Minister of Economy on detailed requirements for aerosol products (Journal of Laws of 2019, item 975):
19. **Act** on the transport of dangerous goods of 19 August 2011 (Journal of Laws 227, item 1367) **Consolidated text Journal of Laws from 2024, item 643**
20. Government **Declaration** of 13 March 2023 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (**Journal of Laws of 2023, item 891**).

15.2 Chemical safety assessment

The supplier did not perform a chemical safety assessment. A safety report is not required for the mixture.

16 SECTION 16: OTHER INFORMATION**Other data sources:**

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Card issued by: Małgorzata Krenke **[Based on the classification and supplier's safety data sheet]**

Feed Reach Consulting; E-mail: biuro@frc.com.pl

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The above information is based on currently available data characterizing the product, as well as the manufacturer's experience and knowledge in this area. The data contained in this Data Sheet should be considered solely as an aid to safe handling during transport, distribution, use, and storage. The Data Sheet is not a certificate of product quality. The information contained in this Data Sheet applies only to the product in question and may not be current or sufficient for this product used in combination with other materials or in various applications. Anyone using the product is obligated to comply with all applicable standards and regulations and is also responsible for any misuse of the information contained in the Data Sheet or improper use of the product.

Classification and procedures used to classify the mixture in accordance with the regulation (EC) 1272/2008 [CLP]

Skin Irrit. 2	H315	calculation method
Eye Irrit. 2	H319	calculation method
Skin Sens. 1	H317	calculation method

H phrases (indicating the type of hazard) used in points 2 and 3 of the Safety Data Sheet:

H315	Irritates the skin.
Skin Irrit. 2	Skin irritation Hazard category 2.
H317	May cause allergic skin reaction.
Skin Sens. 1, 1A	Skin sensitization Hazard category 1, 1A
H319	Irritating to eyes.
Eye Irrit.	Eye irritation Hazard category 2.
2H335	May cause respiratory irritation.
STOT SE 3	Specific target organ toxicity – single exposure Hazard category 3.
H411	Toxic to aquatic life with long lasting effects.
Aquatic Chronic 2	Posing a hazard to the aquatic environment Hazard category 2.

Explanation of abbreviations and acronyms

CEN	European Committee for Standardization
C&L	Classification and labeling
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CAS	Chemical Abstract Service number
COM	European Commission
CMR	Carcinogenic, mutagenic or toxic to reproduction
CSA	Chemical safety assessment
CSR C	Chemical Safety Report
DMEL	Derived level causing minimal change
DNEL	Derived no-change level
DPD	Dangerous Preparations Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC50	Average effective concentration
ECB	Office of Chemicals
ECHOES	European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
EN	European standard

MATERIAL SAFETY DATA SHEET

Update date: 18/04/2025

VERSION: 2.0/PL

prepared in accordance with Commission Regulation (EU) **No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

EU	European Union
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IC50	Concentration causing 50 percent inhibition of a given parameter
IUCLID	International Harmonized Chemicals Database
IUPAC	International Union of Pure and Applied Chemistry
LC50	Median lethal concentration
LD50	Median lethal dose
MSDS	Safety data sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Estimated environmental concentration
PNEC(s)	Predicted No Effect Concentration in the environment
PPE	Personal protective equipment
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety data sheet
SIEF	Forum for the Exchange of Information on Substances
STOT	Target organ toxicity
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure
SVHC	Substances of Very High Concern
vPvB	[Substances] that are very persistent and have a very high bioaccumulative potential
UN number	Material identification number according to the ADR agreement.
ADR	International Convention concerning the Carriage of Dangerous Goods by Road
RID	Regulations for the international carriage of dangerous goods by rail).
IMGD	International Dangerous Goods Code.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
Ems	Emergency response procedures for ships carrying dangerous goods
NDS	Occupational Exposure Limit (TLV-TWA) (OEL-TWA) (PEL-TWA)
NDSch	Maximum allowable momentary exposure concentration (TLV-STEL)
NDSP	Maximum allowable ceiling concentration (TLV-CL)

Training

Before starting to work with the product, the user should familiarize himself with the health and safety regulations regarding handling chemicals, and in particular, undergo appropriate on-the-job training.

Persons involved in the transport of hazardous materials **under the ADR agreement** should be appropriately trained in the scope of their duties (general, job-specific and safety training).

VERSION: 2.0

Changes in sections: 1-16