

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

1.1. Product identifier

Product name: FILAMENT 3D PLA LW Aero Gray 1,75mm

Trade name: Not applicable

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

Relevant identified uses: Thermal processing in 3D printing using FDM technology.

Uses advised against: All others not listed above.

1.3. Details of the supplier of the safety data sheet

Supplier: **ROSA PLAST Sp. z o.o.**
05-074 Hipolitów, Polska
ul. Hipolitowska 102B
Tel.: +48 783 62 62

Email address of the person responsible for this safety data sheet: **3d@rosaplast.pl**

1.4. Emergency phone number

112 (emergency telephone -24 hours a day)
Tel.: +48 783 62 62 open 7.00 a.m. – 3.00 p.m. (Mon.-Fri.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aquatic Chronic 3: H412

The full text of the hazard statements is provided in Section 2.2, Label elements, and SECTION 16: Other information.

2.2. Label elements

Pictograms: Not applicable

Zwolniony z etykietowania zgodnie z Rozporządzeniem (WE) 1272/2008 - Załącznik I - 1.3.4

Związki zawierające polimery nie wymagają oznakowania, jeżeli nie stwarzają zagrożenia dla zdrowia człowieka poprzez wdychanie, połykanie lub kontakt ze skórą lub środowiskiem wodnym w postaci, w jakiej są wprowadzane do obrotu, nawet jeśli są sklasyfikowane jako niebezpieczne.

Zwroty wskazujące rodzaj zagrożenia:

H412 - Działa szkodliwie na organizmy wodne, powodując długotrwałe skutki.

Zwroty wskazujące środki ostrożności:

P102 - Chronić przed dziećmi.

P273 - Unikać uwolnienia do środowiska.

P501- Zawartość/pojemnik usuwać do uprawnionego odbiorcy odpadów zgodnie z przepisami krajowymi.

2.3. Other hazards

The mixture does not contain substances with PBT/vPvB/PMT/vPvM properties or substances with endocrine-disrupting properties included in the list established in accordance with Article 59(1), as determined in accordance with the criteria laid down in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%.

The mixture does not contain substances in nanoform.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

1. 2,2,4-Trimethylpentane

CAS No.: 540-84-1

EC No.: 208-759-1

Index No.: 601-009-00-8

REACH Registration No.: 01-2119457965-22-XXXX

Concentration: 0.70 – 1.05%

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

Flam. Liq. 2, H225

Asp. Tox. 1, H304

Skin Irrit. 2, H315

STOT SE 3, H336

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

2. Amorphous silica*

CAS No.: 7631-86-9

EC No.: 231-545-4

Index No.: not applicable

REACH Registration No.: 01-2119379499-16-XXXX

Concentration: 0.035 – 0.42%

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

Not classified

* National or Union occupational exposure limit values may be established for this substance; see Section 8.

The full text of the hazard statements and explanations of abbreviations are provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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FILAMENT 3D PLA LW Aero Gray 1,75mm

Version: **1.0**

Date of issue: 09.06.2026

Date of update: Not applicable

Ingestion:	Do not give anything to drink to an unconscious person. Rinse mouth immediately with water. Seek medical advice if you feel unwell. Show the label.
Eye contact:	Rinse with plenty of water and continue for at least 15 minutes. Avoid a strong water jet due to the risk of corneal damage. Seek medical attention if symptoms persist.
Skin contact:	Remove contaminated clothing. Rinse the affected skin with plenty of cool water and continue for at least 15 minutes. In the event of direct contact of hot material with the skin, cool the affected area immediately. Do not use force or solvents to remove the product from the skin. Seek medical attention.
Inhalation:	Move the exposed person to fresh air. If breathing difficulties occur or the person feels unwell, seek medical attention.

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

Acute symptoms of exposure: None known.

Symptoms of chronic or long-term exposure: None known.

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

Treat symptomatically. Maintain vital functions.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Powder, foam, CO ₂ , water mist, or water spray. Use extinguishing media appropriate to the surrounding conditions.
Unsuitable extinguishing media:	Solid water jet.

5.2. Special hazards arising from the substance or mixture

The product is a combustible solid. During fire, overheating or thermal decomposition, hazardous combustion and decomposition products may be formed, including carbon monoxide, carbon dioxide, acetaldehyde, formaldehyde, aldehydes, cyclic oligomers, terephthalic acid, ethylene glycol and other irritating or toxic fumes and gases.

Fumes and vapours generated during combustion or thermal decomposition may cause irritation to the eyes, skin and respiratory tract. Do not inhale fumes, gases or decomposition products generated during fire.

5.3. Advice for firefighters

Wear appropriate personal protective equipment. Stay upwind to avoid inhalation of gases, vapours and smoke.

Cool containers exposed to heat with water spray and, if possible, remove them to a safe area. Continue cooling containers exposed to fire with water until the fire has been extinguished.

Collect firefighting residues in accordance with national regulations. Prevent them from entering the environment, including soil and watercourses.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Restrict access by unauthorised persons. Warn people in the surrounding area. Evacuate to a safe location.

For emergency responders: Remove in accordance with the recommendations specified in Section 6.3. Allow hot items to cool down or cool them with water, then collect them mechanically.
Collect hot and warm items using heat-resistant protective gloves compliant with EN 407.

6.2. Environmental precautions

Prevent entry into drains, watercourses, groundwater and surface waters.

6.3. Methods and material for containment and cleaning up

Prevent further release. After hot material has cooled, or after cooling it with water, collect it mechanically and place it in a suitably labelled waste container. Transfer the waste to an authorised waste disposal contractor. Clean the surface where the release occurred. Collect hot and warm material using heat-resistant protective gloves compliant with EN 407.

6.4. Reference to other sections

For personal protective equipment, see: SECTION 8: Exposure controls/personal protection

For waste disposal methods, see: SECTION 13 Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use the product as intended and in accordance with the processing parameters specified for the particular material and equipment. Do not exceed the recommended processing temperatures. Avoid excessive heating of the product, contact with open flames and ignition sources, and conditions that may lead to scorching, charring or visible decomposition of the material.

Ensure adequate ventilation at the workplace, particularly during handling, thermal processing and 3D printing. Avoid inhalation of dust, fumes, vapours and thermal decomposition products. Where ventilation is insufficient or exposure to dust, fumes or thermal decomposition products may occur, use appropriate respiratory protection; see Section 8.

When handling hot or warm parts of the product, equipment or processed material, wear heat-resistant protective gloves compliant with EN 407.

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Mechanical abrasion, cutting, shredding, sanding, milling or grinding processes should be carried out using equipment designed for such operations and with local exhaust ventilation or other effective measures to limit dust emissions. Minimise the generation and accumulation of dust on surfaces.

If dust is generated during processing, assess the process for the potential formation of an explosive atmosphere. Dust dispersed in air may form an explosive atmosphere in the presence of an ignition source. Apply appropriate organisational and technical measures, including effective housekeeping, ventilation, avoidance of ignition sources and, where applicable, measures to prevent the accumulation of electrostatic charges.

If smoke, a strong odour, discolouration, charring, scorching or other signs of thermal degradation occur, stop the process, ventilate the area and dispose of the material in accordance with the applicable waste handling procedures.

Do not eat, drink or smoke when handling the product. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with good manufacturing practice.

Storage temperature: < 30 °C.

Store in accordance with good manufacturing practice.

Incompatible materials, see: SECTION 10. Stability and reactivity.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

POLAND – Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of agents harmful to health in the working environment (Journal of Laws of 2018, item 1286, as amended: Journal of Laws of 2020, item 61; Journal of Laws of 2021, item 325; Journal of Laws of 2023, item 1661; Journal of Laws of 2024, item 1017; Journal of Laws of 2026, item 447).

Amorphous silica — uncalcined diatomaceous earth (diatomite)

CAS No.: 61790-53-2

– inhalable fraction:

OEL (TWA): 10 mg/m³

STEL: -

Ceiling: -

– respirable fraction:

OEL (TWA): 2 mg/m³

STEL: -

Ceiling: -

Methyl methacrylate

CAS No.: 80-62-6

OEL (TWA): 100 mg/m³

STEL: 300 mg/m³

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Ceiling: -

Acrylaldehyde (CAS No. 107-02-8)

OEL (TWA): 0.05 mg/m³

STEL: 0.1 mg/m³

Ceiling: -

Skin absorption may contribute significantly to the overall exposure, to the same extent as exposure by inhalation.

Methods for determining the substance in workplace air: PN-Z-04045-16:2010 Air purity protection — Tests for aldehyde content — Part 16: Determination of acrylaldehyde at workplaces by high-performance liquid chromatography (standard withdrawn without replacement).

Acrylonitrile (CAS No. 107-13-1)

Until 4 April 2026:

OEL (TWA): 2 mg/m³

STEL: 10 mg/m³

Ceiling: -

After 4 April 2026:

OEL (TWA): 1 mg/m³

STEL: 3 mg/m³

Ceiling: -

Skin absorption may contribute significantly to the overall exposure, to the same extent as exposure by inhalation.

Methods for determining the substance in workplace air: PN-Z-04556:2024-09 Air purity protection — Determination of acrylonitrile at workplaces by gas chromatography with flame ionisation detection.

Titanium dioxide (CAS No. 13463-67-7)

– inhalable fraction

OEL (TWA): 10 mg/m³

Inhalable fraction – the fraction of an aerosol, as defined in accordance with PN-EN 481, that enters through the nose and mouth and poses a health hazard after deposition in the respiratory tract. The respirable fraction of crystalline silica is determined simultaneously.

PN-Z-04507:2022-05 Air purity protection — Determination of the inhalable aerosol fraction at workplaces by the gravimetric method.

Ethylbenzene (CAS No. 100-41-4)

OEL (TWA): 200 mg/m³

STEL: 400 mg/m³

Ceiling: -

Skin absorption may contribute significantly to the overall exposure, to the same extent as exposure by inhalation.

Methods for determining the substance in workplace air: PN-Z-04081.01:1979 Air purity protection — Tests for ethylbenzene content — Determination of ethylbenzene at workplaces by gas chromatography with sample enrichment (standard withdrawn without replacement).

Formaldehyde (CAS No. 50-00-0)

OEL (TWA): 0.37 mg/m³

STEL: 0.74 mg/m³

Ceiling: -

Skin absorption may contribute significantly to the overall exposure, to the same extent as exposure by inhalation.

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Methods for determining the substance in workplace air: PN-Z-04045-12:2006 Air purity protection — Tests for aldehyde content — Part 12: Determination of formaldehyde at workplaces by gas chromatography with passive sampling.

Styrene (CAS No. 100-42-5)

OEL (TWA): 50 mg/m³

STEL: 100 mg/m³

Ceiling: -

Methods for determining the substance in workplace air: PN-Z-04152-02:1986 Air purity protection — Tests for styrene content — Determination of styrene at workplaces by gas chromatography with sample enrichment (standard withdrawn without replacement).

Dusts not classified with regard to toxicity

– inhalable fraction

OEL (TWA): 10 mg/m³

STEL: -

Ceiling: -

Inhalable fraction – the fraction of an aerosol that enters through the nose and mouth and, after deposition in the respiratory tract, poses a health hazard, as defined in accordance with PN-EN 481.

European Union

Methyl methacrylate; methyl 2-methylpropenoate

CAS No.: 80-62-6

8-hour limit value: 50 ppm

Short-term limit value: 100 ppm

Legal basis: Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values.

Acrylaldehyde; acrolein; prop-2-enal

CAS No.: 107-02-8

8-hour limit value: 0.05 mg/m³; 0.02 ppm

Short-term limit value: 0.12 mg/m³; 0.05 ppm

Legal basis: Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values.

Acrylonitrile

CAS No.: 107-13-1

8-hour limit value: 1 mg/m³; 0.45 ppm

Short-term limit value: 4 mg/m³; 1.8 ppm

Notation: Skin.

Legal basis: Directive (EU) 2022/431 of the European Parliament and of the Council amending Directive 2004/37/EC.

No harmonised EU occupational exposure limit value has been established for titanium dioxide under the IOELV/BOELV lists. National occupational exposure limit values should be applied in accordance with the applicable national legislation.

Ethylbenzene

CAS No.: 100-41-4

8-hour limit value: 442 mg/m³; 100 ppm

Short-term limit value: 884 mg/m³; 200 ppm

Notation: Skin.

Legal basis: Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

Formaldehyde

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CAS No.: 50-00-0

8-hour limit value: 0.37 mg/m³; 0.3 ppm

Short-term limit value: 0.74 mg/m³; 0.6 ppm

Notation: Skin sensitisation.

Legal basis: Directive (EU) 2019/983 of the European Parliament and of the Council amending Directive 2004/37/EC.

Styrene

CAS No.: 100-42-5

8-hour limit value: 86 mg/m³; 20 ppm

Short-term limit value: 172 mg/m³; 40 ppm

Notation: Skin.

Legal basis: Commission Directive (EU) 2019/1831 establishing a fifth list of indicative occupational exposure limit values.

Workplace air monitoring methods:

PN-Z-04507:2022-05 Air quality -- Determination of the inhalable aerosol fraction at workplaces by the gravimetric method.

PN-Z-04008-7:2002 Air quality -- Sampling -- Principles of air sampling in the workplace environment and interpretation of results.

PN-EN 689+AC:2019-06 Workplace exposure -- Measurement of exposure by inhalation to chemical agents -- Strategy for testing compliance with occupational exposure limit values.

PN-EN 481:2023-02 Workplace atmospheres — Size fraction definitions for measurement of airborne particles.

PN-EN 482:2021-08 Workplace exposure — Procedures for the determination of the concentration of chemical agents — Basic performance requirements.

Legal acts:

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of health-harmful factors in the workplace environment (Journal of Laws [Dz.U.] 2023 item 419; Journal of Laws [Dz.U.] 2024 item 1110).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum admissible concentrations and intensities of health-harmful factors in the workplace environment (Journal of Laws [Dz.U.] 2026 item 447; Journal of Laws [Dz.U.] 2024 item 1017; Journal of Laws [Dz.U.] 2023 item 1661; Journal of Laws [Dz.U.] 2021 item 325; Journal of Laws [Dz.U.] 2020 item 61).

PNEC, DNEL

No data available.

8.2. Exposure control

8.2.1 Relevant technical control measures

Provide adequate ventilation at the workplace. Where possible, use local exhaust ventilation or process enclosure. Personal protective equipment should only be used where exposure cannot be adequately controlled by technical control measures.

8.2. Individual protection measures such as personal protective equipment

a) Eye or face protection: w przypadku ryzyka dostania się do oczu stosować gogle ochronne, EN166 – Ochrona indywidualna oczu - Wymagania.

b) Skin protection

Hand protection: Wear suitable heat-resistant protective gloves compliant with EN 407 – Protective gloves and other hand protective equipment against thermal risks (heat and/or fire).

Protection of other parts of the body: Not required. Depending on the level of exposure and the workplace risk assessment, wear protective clothing and safety footwear appropriate to the identified risks.

c) Respiratory protection: Depending on the level and duration of exposure, use a protective mask/half-mask with a class P3 filter in accordance with EN 149 – Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking.
In case of insufficient ventilation, exceedance of occupational exposure limit values, or generation of vapours/aerosols, use suitable respiratory protection, e.g. a half-mask or full-face mask fitted with a Type A filter for organic vapours in accordance with EN 14387.

d) Thermal hazards: Wear heat-resistant protective gloves compliant with EN 407 – Protective gloves and other hand protective equipment against thermal risks (heat and/or fire).

8.2.3 Environmental exposure control

Comply with the Regulation of the Minister of Maritime Economy and Inland Navigation of 12 July 2019 on substances particularly harmful to the aquatic environment and the conditions to be met when discharging wastewater into waters or into the ground, as well as when discharging rainwater or snowmelt into waters or water facilities.

Comply with the Regulation of the Minister of Climate of 24 September 2020 on emission standards for certain types of installations, fuel combustion plants and waste incineration or co-incineration plants.

In accordance with the requirements of the Journal of Laws of 2020, item 1860, this product has the following properties:

VOC content: 0% by weight

VOC concentration at 20 °C: 0 kg/m³ (0 g/L)

Average carbon number: Not applicable

Average molecular weight: Not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State of matter:	Solid
Colour:	Gray
Odour:	Odourless
Melting/freezing point:	approx. 150 - 180 °C
Boiling point or initial boiling point and boiling range:	None known.
Flammability:	None known.
Lower and upper explosion limit:	None known.
Flash point:	None known.

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Auto-ignition temperature:	approx. 388 °C
Decomposition temperature:	approx. 250 °C
pH:	None known.
Kinematic viscosity:	None known.
Solubility:	None known.
Partition coefficient n-octanol/water (log value):	Not applicable to mixtures.
Vapor pressure:	Not applicable.
Density or relative density:	1,2 - 1,3 g/cm ³ at 20 °C
Relative vapor density:	Not applicable.
Particle characteristics:	None known.

9.2. Other information

9.2.1. Information on physical hazard classes

No further relevant information available.

9.2.2. Other safety features

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage.

10.2. Chemical stability

The mixture is stable under normal conditions of use. Avoid exposure to high temperatures and conditions that may lead to thermal decomposition. Depending on the decomposition conditions, complex mixtures of chemical substances may be released, including carbon dioxide, carbon monoxide and other organic compounds.

10.3. Possibility of hazardous reactions

Does not occur under normal conditions of use.

10.4. Conditions to be avoided

Do not allow thermal decomposition to occur; see SECTION 9: Physical and chemical properties.

10.5. Incompatible materials

Acids, bases, oxidising agents.

10.6. Hazardous decomposition products

During fire, overheating, processing at excessively high temperatures or thermal decomposition, hazardous decomposition products may be generated, including carbon monoxide, carbon dioxide, hydrocarbons and other irritating or toxic fumes and vapours typical of the decomposition of polymeric materials. Depending on the colour variant and the colouring additives used, sulfur oxides, metal oxides and aldehydes, including formaldehyde and acrolein, may also be formed.

SECTION 11: Toxicological information

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

a) Acute toxicity

ATEmix (oral): the mixture does not contain relevant components classified in this hazard class for this route of exposure. Based on the available data, the classification criteria are not met.

ATEmix (dermal): the mixture does not contain relevant components classified in this hazard class for this route of exposure. Based on the available data, the classification criteria are not met.

ATEmix (inhalation, vapours): the mixture does not contain relevant components classified in this hazard class for this route of exposure. Based on the available data, the classification criteria are not met.

2,2,4-Trimethylpentane (CAS No. 540-84-1)

LD50 (oral, rat) > 5,000 mg/kg

LD50 (dermal, rabbit) > 2,000 mg/kg

Amorphous silica (CAS No. 7631-86-9)

LD50 (oral, rat) = 3,160 mg/kg

LD50 (dermal, rabbit) > 2,000 mg/kg

LC50 (inhalation, rat) > 0.139 mg/l/14 h

b) Skin corrosion/irritation

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

c) Serious eye damage/eye irritation

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

d) Respiratory or skin sensitizing

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

e) Germ cell mutagenicity

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

f) Carcinogenic effects

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

g) Reproductive toxicity

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

h) Toxic effects on target organs - single exposure

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

i) Toxic effects on target organs - repeated exposure

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

j) Aspiration hazard

The mixture does not contain substances classified in this hazard class above the generic/specific concentration limit. Based on the available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation, skin contact, eye contact, ingestion.

Symptoms related to physical, chemical and toxicological properties

None known.

Delayed, immediate and chronic effects of short- and long-term exposure

None known.

11.2. Information about other hazards

11.2.1. Endocrine disrupting properties

The mixture does not contain substances with endocrine-disrupting properties included in the list established in accordance with Article 59(1), as determined in accordance with the criteria laid down in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%.

11.2.2. Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

2,2,4-Trimethylpentane (CAS No. 540-84-1)

LC50 (fish, 96 h) = 0.11 mg/l

EC50 (crustaceans, 48 h) = 0.4 mg/l

NOEC (crustaceans, 504 h) = 0.17 mg/l

12.2. Persistence and degradability

No data available for all components.

2,2,4-Trimethylpentane: high persistence in water/soil and in air.

12.3. Bioaccumulation potential

No data available for all components.

2,2,4-Trimethylpentane: moderate bioaccumulation potential, BCF = 650.

12.4. Mobility in soil

Based on the available data, the classification criteria for the mixture are not met. The mixture does not contain PMT/vPvM components.

2,2,4-Trimethylpentane: low mobility in soil, KOC = 275.5.

12.5. Results of PBT and vPvB property assessment

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The mixture does not contain substances with PBT or vPvB properties.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine-disrupting properties.

12.7. Other harmful effects

None known.

SECTION 13: Disposal considerations

13.1. Waste disposal methods

Do not dispose of into drains or watercourses. Consider the possibility of reuse. Waste should be recovered or disposed of in authorised incineration plants or waste disposal facilities in accordance with applicable regulations.

07 02 13 – Waste plastic

Packaging disposal

Send the packaging for disposal to an authorised waste contractor in accordance with the waste code assigned at the place where the waste is generated. Recycling is preferred.

07 02 13 – Waste plastic

15 01 01 – Paper and cardboard packaging

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws of 2020, item 10).

Act of 13 June 2013 on the management of packaging and packaging waste (consolidated text: Journal of Laws of 2026, item 619).

SECTION 14: Transport information

14.1. UN number or ID number

Not applicable. Not classified as dangerous goods under transport regulations (ADR/IATA/IMDG/RID).

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 risks

Not applicable.

14.6. Special precautions for users

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

European legislation:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ EU L 396, 30.12.2006, p. 1, as amended), applied in its consolidated version – legal status as at the date of preparation of this document.
2. Regulation (EC) No 1272/2008 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 (OJ EU L 353, 31.12.2008, p. 1, as amended), applied in its consolidated version – legal status as at the date of preparation of this document.
3. Commission Regulation (EU) 2020/878 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 (REACH) (OJ EU L 203, 26.06.2020, p. 28).

National legislation:

1. Act of 25 February 2011 on Chemical Substances and Their Mixtures (Journal of Laws of 2022, item 1816).
2. Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of agents harmful to health in the working environment (Journal of Laws of 2026, item 447; Journal of Laws of 2024, item 1017; Journal of Laws of 2023, item 1661; Journal of Laws of 2021, item 325; Journal of Laws of 2020, item 61).
3. Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws of 2020, item 10).
4. Act of 27 April 2001 – Environmental Protection Law (consolidated text: Journal of Laws of 2025, item 647, as amended: Journal of Laws of 2025, items 1080, 1812, 1863; Journal of Laws of 2026, items 426, 605, 607, 635).

In accordance with the requirements of the Journal of Laws of 2020, item 1860, this product has the following properties:

VOC content: 0% by weight

VOC concentration at 20 °C: 0 kg/m³ (0 g/L)

Average carbon number: Not applicable.

Average molecular weight: Not applicable.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Substances subject to authorisation – Annex XIV to Regulation (EC) No 1907/2006 (REACH): Does not contain.

Substances of Very High Concern (SVHC) – Candidate List: Does not contain.

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles – Annex XVII to Regulation (EC) No 1907/2006 (REACH): Does not contain.

Seveso (Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC): Not applicable.

POPs/TZO (Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (OJ L 169, 25.06.2019, p. 45), consolidated version – status as of 3 December 2025): Not applicable.

PIC (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 (OJ L 201, 27.07.2012, p. 60)): The product does not contain substances covered by this Regulation.

Ozone Depleting Substances (ODS) (Regulation (EU) 2024/590 of the European Parliament and of the Council of 29 April 2024 on substances that deplete the ozone layer (OJ L, 2024/590, 30.04.2024)): The product does not contain substances covered by this Regulation.

Dual-use items (Regulation (EU) 2021/821 of the European Parliament and of the Council of 20 May 2021 setting up a Union regime for the control of exports, brokering, technical assistance, transit and transfer of dual-use items (OJ L 206, 11.06.2021, p. 1)): the product is not covered by the regulation on dual-use items.

Explosives precursors (Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors (OJ L 186, 11.07.2019, p. 1)): The product is not subject to regulations concerning dual-use goods.

Explosives precursors (Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors (OJ EU L 186, 11.07.2019, p. 1)): The product does not contain substances covered by this Regulation.

Drug precursors (Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on drug precursors (OJ EU L 47, 18.02.2004, p. 1)): The product does not contain substances covered by this Regulation.

RoHS (Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, together with delegated acts and amendments (OJ L 174, 1.7.2011, p. 88)): Not applicable. The product does not constitute electrical or electronic equipment within the meaning of the RoHS Directive and does not contain substances listed in the aforementioned RoHS Directive.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Inne informacje

Full text of hazard statements used in this safety data sheet:

- H225 – Highly flammable liquid and vapour.
- H304 – May be fatal if swallowed and enters airways.
- H315 – Causes skin irritation.
- H336 – May cause drowsiness or dizziness.
- H400 – Very toxic to aquatic life.
- H410 – Very toxic to aquatic life with long lasting effects.
- H412 – Harmful to aquatic life with long lasting effects.

Explanation of abbreviations and acronyms used in the safety data sheet:

- Flam. Liq. 2 – Flammable liquids, hazard category 2.
- Asp. Tox. 1 – Aspiration hazard, hazard category 1.
- Skin Irrit. 2 – Skin irritation, hazard category 2.

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STOT SE 3 – Specific target organ toxicity – single exposure, hazard category 3.

Aquatic Acute 1 – Hazardous to the aquatic environment – acute hazard, category 1.

Aquatic Chronic 1 – Hazardous to the aquatic environment – chronic hazard, category 1.

Aquatic Chronic 3 – Hazardous to the aquatic environment – chronic hazard, category 3.

CAS No. – numerical identifier assigned to a chemical substance by the Chemical Abstracts Service (CAS).

EC No. – number assigned to a chemical substance in the European Inventory of Existing Commercial Chemical Substances.

Index No. – number identifying a substance listed in Annex VI to Regulation (EC) No 1272/2008 (CLP) that has a harmonised classification.

PBT – persistent, bioaccumulative and toxic substance.

vPvB – very persistent and very bioaccumulative substance.

PMT – persistent, mobile and toxic substance.

vPvM – very persistent and very mobile substance.

OEL (TWA) – occupational exposure limit, time-weighted average.

STEL – short-term exposure limit.

Ceiling – ceiling exposure limit.

PNEC – Predicted No-Effect Concentration.

DNEL – Derived No-Effect Level.

LD50 – dose of a substance causing death in 50% of the test population.

LC50 – concentration of a substance causing death in 50% of the test population.

ATE – Acute Toxicity Estimate of a component.

ATEmix – Acute Toxicity Estimate of the mixture.

M – multiplication factor dependent on the acute aquatic toxicity of the substance.

Recommendations on any training appropriate for workers to ensure protection of human health and the environment:

Before use, familiarise yourself with the hazards posed by the mixture, the personal protective equipment required, and the procedures for safe handling.

Additional information:

For the purposes of classification, the calculation method was used by applying the classification criteria for each hazard class, taking into account the further differentiation set out in Parts 2–5 of Annex I to Regulation (EC) No 1272/2008 of 16 December 2008 on the classification, labelling and packaging of substances and mixtures.

Based on:

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Training instructions must be observed when handling this material. The information contained in this sheet is based on the knowledge available to us at the date of compilation of the last version of the sheet. The user

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must verify that the information provided is correct and comprehensive in relation to the specific use of the product. This document shall not be equated with a guarantee of any specific product property. Since the manufacturer has no direct control over the use of the product, the user is obliged to comply with the laws and regulations in force regarding health and safety. The manufacturer assumes no liability for the improper use of the product.



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