

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

1.1. Product identifier

Product name:

ROSA 3D - Adhesive for 3D printing

Trade name:

E300-F0JD-Q00E-G9YT

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

Relevant identified uses:

Adhesive for 3D printing. PC-ADH-OTH

Other adhesives and sealants.

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

Flam. Liq. 3, H226

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: GHS02

Signal word: Warning

Hazard statements

H226 – Flammable liquid and vapour.

Precautionary statements

P102 – Keep out of reach of children.

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P303+P361+P353 – IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.

P403+P235 – Store in a well-ventilated place. Keep cool.

P501 – Dispose of contents/container through an authorised waste disposal contractor in accordance with national regulations.

UFI: E300-F0JD-Q00E-G9YT

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. Ethanol*

CAS No.: 64-17-5

EC No.: 200-578-6

Index No.: 603-002-00-5

REACH Registration No.: 01-2119457610-43-XXXX

Concentration: 0 – < 35%

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

Flam. Liq. 2, H225; Eye Irrit. 2, H319

Specific concentration limit: Eye Irrit. 2; H319: ≥ 50%

2. Propan-2-ol*

CAS No.: 67-63-0

EC No.: 200-661-7

Index No.: 603-117-00-0

REACH Registration No.: 01-2119457558-25-XXXX

Concentration: 0 – < 0.825%

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

Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

3. Butanone*

CAS No.: 78-93-3

EC No.: 201-159-0

Index No.: 606-002-00-3

REACH Registration No.: 01-2119457290-43-XXXX

Concentration: 0 – < 0.825%

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

Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

EUH066

4. Denatonium benzoate / Bitrex

CAS No.: 3734-33-6

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EC No.: 223-095-2

Index No.: not applicable

REACH Registration No.: 01-2120102843-65-XXXX

Concentration: 0 – < 0.33%

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

Acute Tox. 2, H330; Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Irrit. 2, H315

* National or Union occupational exposure limit values have been established for these substances; see Section 8.

The full text of the hazard statements and explanations of abbreviations are provided in SECTION 16: Other information.

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

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5.2. Special hazards arising from the substance or mixture

The product is a flammable liquid. Vapours may form flammable mixtures with air. Vapours may travel along the ground to distant ignition sources and cause flashback.

During fire, carbon monoxide, carbon dioxide and other harmful thermal decomposition products may be formed.

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.

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: Wear protective gloves made of nitrile rubber, butyl rubber or fluororubber, and protective clothing made of three-layer polyethylene film or other suitable material, Category III, Type 3/4/6. Use a half-mask respirator fitted with an A2 or A2P2 filter, and safety goggles. Avoid contact and do not inhale vapours.
Evacuate unauthorised persons to a safe location. Remove all possible sources of ignition. Ensure adequate ventilation of the area.
Highly flammable liquid. Explosion hazard area.
Caution: vapours are heavier than air, may spread along the ground and accumulate in low-lying areas, depressions and lower parts of enclosed spaces.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Absorb with non-combustible absorbent material, e.g. sand, diatomaceous earth or a universal absorbent. Place the collected material in a suitably labelled container for disposal.

Do not use sawdust or other combustible absorbent materials. Rinse the contaminated area with water, provided that this does not create a risk of the product entering the drainage system.

6.4. Reference to other sections

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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 in a well-ventilated area. Avoid inhalation of vapours, mist or aerosol. Avoid contact with skin and eyes. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use non-sparking tools. Take precautions against electrostatic discharge. Ground and bond the container and receiving equipment when transferring larger quantities of the product.

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

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a cool, dry and well-ventilated place. Protect from heat, direct sunlight, ignition sources and electrostatic discharges.

Store away from strong oxidising agents, strong acids and strong bases. Keep away from food, beverages and animal feed.

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).

Completely denatured ethyl alcohol (CAS No. 64-17-5)

OEL (TWA): 1900 mg/m³

Methods for determining the substance in workplace air: PN-Z-04023-02:1989 Air purity protection — Tests for the content (in mixtures) of harmful substances released from nitrocellulose coating products — Determination of acetone; alcohols: ethyl, n-butyl, isobutyl, ethoxybutyl and butoxyethyl; acetates: ethyl, n-butyl and ethoxyethyl; toluene and xylene at workplaces by gas chromatography (standard withdrawn without replacement).

Butan-2-one (CAS No. 78-93-3)

OEL (TWA): 450 mg/m³

STEL: 900 mg/m³

Methods for determining the substance in workplace air: PN-Z-04449:2014 Air purity protection — Determination of butan-2-one at workplaces by gas chromatography.

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Isopropyl alcohol (CAS No. 67-63-0)

OEL (TWA): 900 mg/m³

STEL: 1200 mg/m³

Methods for determining the substance in workplace air: PN-Z-04224-02:1992 Air purity protection — Tests for propyl alcohol content — Determination of isopropyl alcohol at workplaces by gas chromatography (standard withdrawn).

European Union

Butan-2-one; butanone; methyl ethyl ketone

CAS No.: 78-93-3

8-hour limit value: 600 mg/m³; 200 ppm

Short-term limit value: 900 mg/m³; 300 ppm

Legal basis: Commission Directive 2000/39/EC establishing a first 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

Completely denatured ethyl alcohol (CAS No. 64-17-5)

DNEL

Worker, short-term exposure, inhalation, respiratory tract irritation: 1,900 mg/m³

Worker, long-term exposure, inhalation, carcinogenicity: 950 mg/m³

Worker, long-term exposure, dermal, repeated-dose toxicity: 343 mg/kg/day

General population, including consumers, short-term exposure, inhalation, respiratory tract irritation: 950 mg/m³

General population, including consumers, long-term exposure, dermal, repeated-dose toxicity: 206 mg/kg/day

General population, including consumers, long-term exposure, inhalation, carcinogenicity: 114 mg/m³

General population, including consumers, long-term exposure, oral, repeated-dose toxicity: 87 mg/kg/day

PNEC

Fresh water: 0.96 mg/l

Marine water: 0.79 mg/l

Intermittent releases: 2.75 mg/l

Freshwater sediment: 3.6 mg/kg

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Marine sediment: 2.9 mg/kg

Soil: 0.63 mg/kg

Sewage treatment plant (STP): 580 mg/l

Butan-2-one (CAS No. 78-93-3)

DNEL

Worker, long-term exposure, inhalation, repeated-dose toxicity: 600 mg/m³

Worker, long-term exposure, dermal, repeated-dose toxicity: 1,161 mg/kg/day

General population, including consumers, long-term exposure, inhalation, repeated-dose toxicity: 106 mg/m³

General population, including consumers, long-term exposure, dermal, repeated-dose toxicity: 412 mg/kg/day

General population, including consumers, long-term exposure, oral, repeated-dose toxicity: 31 mg/kg/day

PNEC

Fresh water: 55.8 mg/l

Marine water: 55.8 mg/l

Sewage treatment plant (STP): 709 mg/l

Freshwater sediment: 284.74 mg/l

Marine sediment: 284.7 mg/l

Soil: 22.5 mg/l

Isopropyl alcohol (CAS No. 67-63-0)

DNEL

General population, inhalation, long-term exposure, systemic effects: 89 mg/m³

General population, dermal, long-term exposure, systemic effects: 319 mg/kg/day

General population, oral, repeated exposure, systemic effects: 26 mg/kg/day

PNEC

Fresh water: 140.9 mg/l

Fresh water, intermittent releases: 140.9 mg/l

Marine water: 140.9 mg/l

Freshwater sediment: 552 mg/kg

Marine sediment: 552 mg/kg

Sewage treatment plant (STP): 2.251 g/l

Soil: 28 mg/kg

Denatonium benzoate / Bitrex (CAS No. 3734-33-6)

DNEL

Worker, long-term exposure, inhalation, systemic effects, repeated-dose toxicity: 4.99 mg/m³

Worker, long-term exposure, dermal, systemic effects, repeated-dose toxicity: 1.43 mg/kg/day

General population, including consumers, long-term exposure, inhalation, systemic effects, repeated-dose toxicity: 768 µg/m³

General population, including consumers, long-term exposure, dermal, systemic effects, repeated-dose toxicity: 510 µg/kg/day

General population, including consumers, long-term exposure, oral, systemic effects, repeated-dose toxicity: 510 µg/kg/day

PNEC

Fresh water: 100 µg/l

Marine water: 10 µg/l

Sewage treatment plant (STP): - mg/l

Freshwater sediment: 25 mg/l

Marine sediment: 2.5 mg/l

Soil: 4.95 mg/l

8.2. Exposure control

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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: Safety goggles with acetate lenses, compliant with EN 166 – Personal eye protection – Specifications.
- b) Skin protection
- Hand protection: Protective gloves for short-term protection.
Material: nitrile
Category: III
Material thickness: min. 0.1 mm
Breakthrough time: approx. 10 min
- Protection of other parts of the body: Depending on the level of exposure, wear an apron or Category III protective coveralls, Type 3, meeting the requirements of EN 340 – Protective clothing – General requirements, and EN 14605 – Protective clothing against liquid chemicals, Type 3 – liquid-tight protection, or Type 4 – protection against liquid spray (non-pressurised).
Protective clothing should also comply with EN 1149 – Protective clothing – Electrostatic properties.
- c) Respiratory protection: Under normal conditions of use and with adequate ventilation, respiratory protection is not required.
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: Where there is a risk of burns from hot components, 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.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

State of matter:	Liquid
Colour:	Colourless
Odour:	Characteristic alcoholic odour.
Melting/freezing point:	None known.
Boiling point or initial boiling point and boiling range:	None known.
Flammability:	Flammable
Lower and upper explosion limit:	None known.
Flash point:	30 °C
Auto-ignition temperature:	None known.
Decomposition temperature:	None known.
pH:	7
Kinematic viscosity:	None known.
Solubility:	Soluble in water.
Partition coefficient n-octanol/water (log value):	Not applicable to mixtures.
Vapor pressure:	None known.
Density or relative density:	approx. 0,95 g/cm ³ at 20 °C
Relative vapor density:	> 1
Particle characteristics:	Not applicable, the mixture is a liquid.

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. For incompatible materials, see Section 10.5.

10.2. Chemical stability

The mixture is stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Does not occur under normal conditions of use.

10.4. Conditions to be avoided

Ignition sources, high temperatures, accumulation of electrostatic charges.

10.5. Incompatible materials

Acids, bases, oxidising agents.

10.6. Hazardous decomposition products

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Under recommended conditions of use and storage, hazardous decomposition products are not expected to be formed. In the event of fire, thermal decomposition or heating of the product to high temperatures, harmful decomposition products may be generated, such as carbon monoxide, carbon dioxide, nitrogen oxides and other organic decomposition products.

SECTION 11: Toxicological information

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

a) Acute toxicity

ATEmix, oral: > 151,515 mg/kg (converted acute toxicity point estimate = 500).

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

ATEmix, inhalation: > 151 mg/l (converted acute toxicity point estimate = 0.5).

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

ATEmix, dermal: the mixture does not contain substances classified in this hazard class for this route of exposure.

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

Completely denatured ethyl alcohol (CAS No. 64-17-5)

LD50 (oral, rat) = 3,450 mg/kg

LD50 (oral, mouse) = 7,060 mg/kg

LC50 (inhalation, rat) > 20 mg/l/4 h

Isopropyl alcohol (CAS No. 67-63-0)

LD50 (oral, rat) = 5,480 mg/kg

LD50 (inhalation, rat) = 46.6 mg/l (exposure time: 8 h)

LD50 (dermal, rat) = 12,800 mg/kg

Butan-2-one (CAS No. 78-93-3)

LD50 (oral, rat) = 2,737 mg/kg

LC50 (dermal, rat) = 6,480 mg/kg

LD50 (inhalation, mouse) = 40 g/m³/2 h

Denatonium benzoate / Bitrex (CAS No. 3734-33-6)

LD50 (oral, rat) = 749 mg/kg

LC50 (inhalation, rat) = 0.2 mg/l/4 h

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

b) Skin corrosion/irritation

The mixture contains substances classified in this hazard class at concentrations below the generic concentration limit. Based on the available data, the classification criteria are not met.

c) Serious eye damage/eye irritation

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

e) Germ cell mutagenicity

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The mixture does not contain substances classified in this hazard class. 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. 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. Based on the available data, the classification criteria are not met.

h) Toxic effects on target organs - single exposure

The mixture contains substances classified in this hazard class at concentrations below the generic 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. 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. 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

The mixture does not contain substances classified in this hazard class. Based on the available data, the classification criteria are not met.

Ethyl alcohol (CAS No. 64-17-5)

LC50, Salmo gairdneri, fish, 96 h = 1,300 mg/l

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LC50, Gobio gobio, fish, 96 h = 7,000–9,000 mg/l
EC50, Daphnia magna, crustaceans = 7,800 mg/l
Isopropyl alcohol (CAS No. 67-63-0)
LC50, Pimephales promelas, fish, 96 h = 9,640 mg/l
EC50, Daphnia magna, crustaceans, 48 h = 13,299 mg/l
EC50, Scenedesmus subspicatus, algae, 72 h = 1,000 mg/l
Butan-2-one (CAS No. 78-93-3)
LC50, fish = 3,220 mg/l/96 h
LD50, crustaceans = 5,090 mg/kg
Denatonium benzoate / Bitrex (CAS No. 3734-33-6)
LC50, fish, 96 h (OECD 203) > 100 mg/l

12.2. Persistence and degradability

No data available for all components.

12.3. Bioaccumulation potential

No data available for all components.

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.

12.5. Results of PBT and vPvB property assessment

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

Product disposal

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.

08 04 09* – Waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging disposal

Send 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

15 01 10* – Packaging containing residues of or contaminated by hazardous substances

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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

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental risks

Not applicable.

14.6. Special precautions for users

Classification code: F1

Hazard labels: 3

Hazard identification number: 30

Limited quantity: 5 L

Tunnel restriction code: D/E

Special provisions: 274, 601

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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).

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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).

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.

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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:

H330 – Fatal if inhaled.
H302 – Harmful if swallowed.
H318 – Causes serious eye damage.
H319 – Causes serious eye irritation.
H225 – Highly flammable liquid and vapour.
H226 – Flammable liquid and vapour.
H315 – Causes skin irritation.
H336 – May cause drowsiness or dizziness.

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

Flam. Liq. 2 – Flammable liquid, hazard category 2.
Flam. Liq. 3 – Flammable liquid, hazard category 3.
Acute Tox. 2 – Acute toxicity, hazard category 2.
Acute Tox. 4 – Acute toxicity, hazard category 4.
Skin Irrit. 2 – Skin irritation, hazard category 2.
Eye Irrit. 2 – Eye irritation, hazard category 2.
Eye Dam. 1 – Serious eye damage, hazard category 1.
STOT SE 3 – Specific target organ toxicity – single exposure, 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.

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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:

<https://echa.europa.eu>

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 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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