

SAFETY DATA SHEET

Revision date: 31.01.2023

VERSION: 3.0/EN

SAFETY DATA SHEET
Upholstery Spray Adhesive

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 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Upholstery Spray Adhesive

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

Identified uses: Upholstery adhesive

SU 3 Industrial uses

SU 22 Professional uses

Uses advised against: None

1.3 Details of the supplier of the safety data sheet

Zakłady Chemiczne „ANSER” Sp. z o.o.

ul. Dźwigowa 3/2, 02-437 Warszawa, Poland

Tel.: +48 46 856 73 40 fax: +48 46 856 73 50

email: a.zagajewska@anser.pl

1.4 Emergency telephone number

Emergency telephone number in Poland (available 8:00 a.m. – 4:00 p.m.): +48 46 856 73 40

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

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No 1272/2008:

Hazards arising from physicochemical properties:

Aerosols, Hazard Category 1 [Aerosol 1]

Extremely flammable aerosol. Pressurised container: may burst if heated (H222-H229)

Hazards to health

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)

May cause damage to organs through prolonged or repeated exposure [STOT RE 2]

May cause damage to organs through prolonged or repeated exposure (H373)

Reproductive toxicity, Hazard Category 2 [Repr. 2]

Suspected of damaging fertility (H361)

Specific target organ toxicity — single exposure, Hazard Category 3, narcotic effects [STOT SE 3]

May cause drowsiness or dizziness (H336)

Aspiration hazard, Hazard Category 1 [Asp. Tox. 1]*

May be fatal if swallowed and enters airways (H304)

Note * Mixtures placed on the market in aerosol form need not be labelled with the Asp. Tox. 1 / H304 phrase.

Hazards to the environment:

Hazardous to the aquatic environment — chronic hazard, Category 2 [Aquatic Chronic 2]

Toxic to aquatic life with long lasting effects (H411)

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2.2 Label elements

Pictogram

GHS02 GHS08 GHS07 GHS09

Signal word: DANGER

Names of hazardous constituents on label:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane; Colophony

Hazard statement(s) (H)

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s) (P)

General:

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

Prevention:

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Storage:

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental hazard information:

EUH066 Repeated exposure may cause skin dryness or cracking.

The product contains: Explosives precursors subject to reporting. Making available, placing on the market, possession and use in accordance with Regulation (EU) 2019/1148, Article 9.

2.3 Other hazards

Vapours form explosive mixtures with air. Heating causes an increase in pressure and a risk of bursting.

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

PBT substances (persistent, bioaccumulative and toxic substances)

vPvB substances (substances that are very persistent and very bioaccumulative)

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The product does not contain substances included in the list drawn up in accordance with Article 59(1) as having endocrine-disrupting properties, or substances identified as having endocrine-disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not applicable

3.2 Mixture

Identification numbers	Chemical name	wt. %	Pictogram, signal word codes	Hazard class and category codes	H-statement codes
CAS: 115-10-6 EC (EINECS): 204-065-8 Index No: 603-019-00-8 Own registration No: 01-2119472128-37-xxxx	Dimethyl ether [1,2]	55<x<60	GHS02 GHS04 Dgr	Flam. Gas 1 Press. Gas (Liq.)	H220 H280
CAS: — EC (EINECS): 924-168-8 Index No: — Own registration No: 01-2119475133-43-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane [1,2,3]	15<X<20	GHS02 GHS08 GHS05 GHS09 Dgr	Flam. Liq. 3 Skin Irrit. 2 Asp. Tox. 1 Repr. 2 STOT SE 3 STOT RE 2 Aquatic Chronic 2	H225 H315 H304 H361 H336 H373 H411
CAS: 8050-09-7 EC (EINECS): 232-475-7 Index No: 650-015-00-7 Own registration No: 01-2119480418-32-xxxx	Colophony	10<X<15	GHS07 Wng	Skin Sens. 1	H317
CAS: 67-64-1 EC (EINECS): 200-662-2 Index No: 606-001-00-8 Own registration No: 01-2119471330-49-xxxx	Acetone [1,2,4,5]	1<x<5	GHS02 GHS07 Dgr	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336 EUH066
CAS: 1330-20-7 EC (EINECS): 215-535-7 Index No: 601-022-00-9 Own registration No: 01-2119457861-32-xxxx	Xylene [1,2]	<0.3	GHS02 GHS07 GHS08 Dgr	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2	H226 H332 H312 H315 H319 H335 H373

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Identification numbers	Chemical name	wt. %	Pictogram, signal word codes	Hazard class and category codes	H-statement codes
				Asp. Tox. 1	H304

[1] Substance with a nationally established occupational exposure limit. See Section 8. [2] Substance with an EU-established occupational exposure limit. [3] Complex mixture of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. UVCB substance. Content of substance constituents: Benzene ≤10 ppm CAS: 71-43-2 Toluene ≤10 ppm CAS: 108-88-3 n-hexane 6-60% CAS: 110-54-3

[4] Narcotics precursor [5] Explosives precursor

The full text of the H-statements is given in Section 16 of the Safety Data Sheet.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General: Symptoms of poisoning may appear only after exposure; therefore, in case of doubt, direct exposure to the chemical product, or prolonged malaise, a doctor should be consulted and shown the product's label or safety data sheet.

Skin contact: Remove contaminated clothing. Rinse exposed skin thoroughly with running water and soap. Consult a doctor if any worrying symptoms occur.

Eye contact: Rinse contaminated eyes thoroughly with water for at least 15 minutes. Avoid a strong stream of water — risk of damage to the cornea. Protect the unaffected eye, remove contact lenses. Consult an ophthalmologist if irritation occurs.

Ingestion: Exposure by this route does not normally occur. However, if swallowed, do not induce vomiting. Rinse the mouth with water. Immediately consult a doctor, show the label.

Inhalation: Remove the affected person to fresh air, keep them warm and calm. If feeling unwell, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Routes of exposure: The substance can be absorbed into the body by inhaling its vapours. Rapid evaporation of the liquid may cause cold burns.

Skin contact: Direct skin contact may cause cold burns. Contact of the product with the skin causes significant inflammation with erythema, scabbing or swelling. Repeated exposure may cause skin dryness or cracking.

Eye contact: Contact may cause tearing, redness, eye irritation.

Ingestion: Nausea, vomiting, abdominal pain.

After inhalation: May be irritating if absorbed via the respiratory tract if exposure occurs to vapours, mist, or fumes from thermal decomposition. May cause drowsiness, a state of unconsciousness.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, extinguishing powders, water — spray jets.

Unsuitable extinguishing media:

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Do not use a solid water jet.

5.2 Special hazards arising from the substance or mixture

Toxic combustion products may form during combustion, including carbon oxides and other unidentified thermal decomposition products.

Overheated aerosol cans burst and may be violently ejected, which may create a dangerous fire-spreading mechanism.

5.3 Advice for firefighters

Follow the procedures applicable for extinguishing chemical fires.

Flammable aerosol. Vapours may form explosive mixtures with air. Risk of explosion of heated containers with the product. Cool fire-exposed containers from a safe distance with a spray water stream. Collect used extinguishing agents. Prevent firefighting water from entering the sewage system, surface waters and soil. General protective measures typical for a fire apply. Do not remain in a fire-endangered zone without appropriate chemical-resistant clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Restrict access of bystanders to the accident area until appropriate clean-up operations are complete. In the event of large leaks, isolate the hazardous area. Use personal protective equipment. Avoid contamination of eyes and skin. Ensure adequate ventilation. Avoid generating and inhaling dust from the product. Do not inhale the aerosol.

For emergency responders:

Ensure that clean-up of the accident and its effects is carried out only by trained personnel. Use personal protective equipment.

6.2 Environmental precautions

Prevent the product from entering drains, water or soil. In the event of release of large quantities of the product, notify the appropriate authorities.

6.3 Methods and material for containment and cleaning up

Secure drains. Remove ignition sources (extinguish open flames, prohibit smoking and the use of spark-generating tools). Absorb the product with a chemically inert binding material (sand, diatomaceous earth), transfer it to tightly closable containers and hand over for disposal. Rinse the contaminated surface with a large amount of water. Use non-sparking tools and explosion-proof equipment. Dispose of the contaminated material as waste, in accordance with Section 13.

6.4 Reference to other sections

Personal protective equipment — see Section 8. Dispose of in accordance with the recommendations given in Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Work in accordance with health and safety rules. Avoid contact with eyes and skin. Avoid inhaling the product's vapours. Wash hands before breaks and after finishing work. Keep unused containers tightly closed. Ensure proper ventilation of the room where the product is stored and used. Remove ignition sources, do not smoke tobacco. Use personal protective equipment. Use as intended.

7.2 Conditions for safe storage, including any incompatibilities

Store the product in a cool, dry room in sealed, vented packaging. Keep away from heat sources, fire, spark-generating equipment or other ignition sources. To prevent damage to the container's metal, keep away from acidic or basic reaction products. Be careful with heat, as at temperatures above 50°C the pressure inside the container increases, which may cause the cylinder to deform and eventually burst.

7.3 Specific end use(s)

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See Section 1.2 of the SDS.

No information on other uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (Poland):

Substance	Limit type	Value
Acetone [67-64-1]	NDS (TWA) / NDSch (STEL)	600 mg/m ³ / 1800 mg/m ³
Benzene [71-43-2]	NDS (TWA)	1.6 mg/m ³
n-hexane [110-54-3]	NDS (TWA)	72 mg/m ³
White spirit [64742-49-0]	NDS (TWA) / NDSch (STEL)	500 mg/m ³ / 1500 mg/m ³
Lacquer solvent naphtha [8052-41-3]	NDS (TWA) / NDSch (STEL)	300 mg/m ³ / 900 mg/m ³
Dimethyl ether [115-10-6]	NDS (TWA)	1000 mg/m ³
Xylene — mixture of isomers: 1,2-; 1,3-; 1,4- [95-47-6, 108-38-3, 106-42-3, 1330-20-7]	NDS (TWA) / NDSch (STEL)	100 mg/m ³ / 200 mg/m ³

Legal basis: Regulation of the Polish Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018.1286, as amended [Journal of Laws 2020.61]); Regulation of the Minister of Development, Labour and Technology of 18 February 2021 amending that regulation (Journal of Laws 2021, item 325); Regulation of the Minister of Health of 2 February 2011 on testing and measurement of factors harmful to health in the working environment (Journal of Laws No. 33, item 166, 2011, as amended by Journal of Laws 2022.2662).

EU

Substance	TWA (8h)	STEL (15 min)
Acetone [67-64-1]	1210 mg/m ³ / 500 ppm	—
n-hexane [110-54-3]	72 mg/m ³ / 20 ppm	—
Benzene [71-43-2]	3.25 mg/m ³ / 1 ppm	—
Dimethyl ether [115-10-6]	No data available	No data available
Xylene [1330-20-7]	221 mg/m ³ / 50 ppm	442 mg/m ³ / 100 ppm

Legal basis: Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values; Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work; Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values and amending Directives 91/322/EEC and 2000/39/EC; Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work; Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values; Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values and amending Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

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DNEL and PNEC values:

Acetone [67-64-1]

Biological limit value (DSB): 30 mg acetone/l — in a urine sample taken once at the end of the daily exposure, on any working day.

Route/parameter	Value
DNEL worker — acute, local, respiratory	2420 mg/m ³
DNEL worker — chronic, systemic, dermal	186 mg/kg bw/day
DNEL worker — chronic, systemic, respiratory	1210 mg/m ³
DNEL consumer — chronic, systemic, respiratory	200 mg/m ³
DNEL consumer — chronic, systemic, dermal	62 mg/kg bw/day
DNEL consumer — chronic, systemic, oral	62 mg/kg bw/day
PNEC — freshwater	10.6 mg/l
PNEC — marine water	1.06 mg/l
PNEC — intermittent release	21 mg/l
PNEC — freshwater sediment	30.4 mg/kg sediment
PNEC — marine sediment	3.04 mg/kg sediment
PNEC — sewage treatment plant (STP)	100 mg/l
PNEC — soil	29.5 mg/kg soil

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane [EC: 924-168-8]

Route/parameter	Value
DNEL worker — inhalation, chronic toxicity	145 mg/m ³
DNEL worker — dermal, chronic toxicity	21 mg/kg/24h
DNEL consumer — inhalation, chronic toxicity	27 mg/m ³
DNEL consumer — oral, chronic toxicity	8 mg/kg/24h
DNEL consumer — dermal, chronic toxicity	9 mg/kg/24h
PNEC — water, sediment, soil, sewage treatment plant	Not applicable

Dimethyl ether [115-10-6]

Route/parameter	Value
DNEL inhalation — general population, consumers	471 mg/m ³
DNEL inhalation — worker	1894 mg/m ³
PNEC — freshwater	0.155 mg/l
PNEC — marine water	0.016 mg/l
PNEC — freshwater sediment	0.681 mg/kg
PNEC — marine sediment	0.069 mg/kg

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Route/parameter	Value
PNEC — soil	0.045 mg/kg

Xylene, mixture of isomers

Route/parameter	Value
DNEL worker — inhalation, short-term, local effects	289 mg/m ³
DNEL worker — inhalation, short-term, systemic effects	289 mg/m ³
DNEL worker — inhalation, long-term, systemic effects	77 mg/m ³
DNEL worker — dermal, long-term, systemic effects	180 mg/kg
DNEL consumer — inhalation, short-term, local effects	174 mg/m ³
DNEL consumer — inhalation, short-term, systemic effects	174 mg/m ³
DNEL consumer — dermal, long-term, systemic effects	108 mg/kg
DNEL consumer — inhalation, long-term, systemic effects	14.8 mg/m ³
DNEL consumer — oral, long-term, systemic effects	1.6 mg/kg
PNEC — soil	2.31 mg/kg
PNEC — freshwater	0.327 mg/l
PNEC — freshwater sediment	12.46 mg/kg
PNEC — marine water	0.327 mg/l
PNEC — marine sediment	12.46 mg/kg
PNEC — sewage treatment plant (STP)	6.58 mg/l

Recommended monitoring procedures: Procedures for monitoring the concentrations of hazardous components in air and procedures for controlling air quality at the workplace should be applied — where available and justified for the given workstation — in accordance with the relevant Polish or European Standards, taking into account the conditions at the place of exposure and a measurement methodology appropriate to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements set out in the Regulation of the Minister of Health of 2 February 2011 (Journal of Laws 2011, No. 33, item 166).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Do not inhale the aerosol. During the production process, local exhaust ventilation and general room ventilation are necessary. At some workstations, local exhaust ventilation may be necessary.

8.2.2 Individual protection measures, such as personal protective equipment

Where the concentration of hazardous substances is established and known, the selection of personal protective equipment should take into account the concentration of the substance at the given workstation, exposure time, tasks performed by the worker, and the recommendations given by the manufacturer of the protective equipment. In an emergency situation or when the concentration of the substance at the workstation is not known, use body-isolating personal protective equipment (a gas-tight suit combined with isolating respiratory protective equipment).

Note: Aerosols, like most vapours/mists, should never be used in enclosed spaces without adequate ventilation.

Respiratory protection: Not necessary under normal conditions with sufficient ventilation. Required: in case of exposure to high concentrations of the product's vapours. In the event of a hazardous atmosphere containing the mixture's vapours, use independent respiratory protective equipment.

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Hands and skin: For prolonged contact with the product, use protective clothing and nitrile rubber protective gloves. For short-term contact, use protective gloves with a protection level of 2 or higher (breakthrough time > 30 min). For prolonged contact, use protective gloves with a protection level of 6 (breakthrough time > 480 min). The material from which the gloves are made must be impermeable and resistant to the product. The resistance of glove materials must be verified before use. Information on the permeation time of the substance through the gloves should be obtained from the glove manufacturer, and that time must be observed. Regular replacement of gloves is recommended, with immediate replacement if any signs of wear, damage (tears, punctures) or changes in appearance (colour, elasticity, shape) occur. The use of appropriate protective creams is recommended to prevent excessive drying of the skin.

Eyes: In an environment where splashing may occur, protective goggles should be worn.

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

8.2.3 Environmental exposure controls

Prevent entry into the municipal water and sewage system and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine their compliance with environmental protection legal requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state: Liquid under liquefied gas pressure [Aerosol]

Colour: No data available

Odour: Characteristic

Melting/freezing point: -141°C [propellant]

Boiling point and boiling range: 25°C [propellant]

Flammability: Flammable product

Lower and upper explosive limit: No data available

Flash point: No data available

Auto-ignition temperature [gases, liquids]: 226°C [propellant]

Decomposition temperature: No data available

pH: Not applicable

Kinematic viscosity [mm²/s]: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Vapour pressure: No data available

Relative density: No data available

Relative vapour density: No data available

Particle characteristics [solids]: Not applicable [aerosol]

9.2 Other information**9.2.1 Information with regard to physical hazard classes**

Explosive properties: Not applicable

Oxidising properties: Not applicable.

9.2.2 Other safety characteristics

No results of additional testing.

SECTION 10: STABILITY AND REACTIVITY

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10.1 Reactivity

Under conditions of storage and handling in accordance with the intended use, there is no reactivity.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

The container holds the mixture under increased pressure — it must be protected from sunlight; do not exceed a temperature of 50°C. Vapours form explosive mixtures with air.

10.4 Conditions to avoid

Avoid direct sunlight, heat sources and fire, heating above 50°C. Avoid the build-up of electrostatic charges.

10.5 Incompatible materials

Protect from strong acids and bases, as well as from oxidising substances.

10.6 Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. See Section 5 for more information.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity of the mixture's components

Acetone

LD50 (oral, rat) 5800 mg/kg

LC50 (inhalation, rat) 76 mg/l/4h

LD50 (dermal, rabbit, guinea pig) 7400 mg/kg

Hydrocarbons, C6-C7

LD50 (oral, rat) > 5840 mg/kg

LC50 (inhalation, rat, 4h) > 25 200 mg/m³

LD50 (dermal, rat) > 2920 mg/kg

Dimethyl ether

LC50 308.5 mg/l 4h, rat

Estimated acute toxicity of the mixture

ATE MIX oral (mg/kg): >2,000. Based on available data, the classification criteria are not met.

ATE MIX dermal (mg/kg): >2,000. Based on available data, the classification criteria are not met.

ATE MIX inhalation (mg/l/4h): >20. Based on available data, the classification criteria are not met.

The acute toxicity of the mixture (ATEmix) was calculated using the relevant conversion factor set out in Table 3.1.2 of Annex I to the CLP Regulation, as amended.

Skin corrosion/irritation:

Causes irritation.

Serious eye damage/eye irritation:

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

Respiratory or skin sensitisation:

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May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

Suspected of damaging fertility.

STOT — single exposure:

May cause drowsiness or dizziness.

STOT — repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

The mixture contains low-viscosity components that have been classified as presenting an aspiration hazard if swallowed (H304). However, due to the form of the product [aerosol], which prevents swallowing, the product as a whole does not carry a risk of aspiration into the lungs.

Information on likely routes of exposure

Skin contact: Direct skin contact may cause cold burns. Contact of the product with the skin causes significant inflammation with erythema, scabbing or swelling. Repeated exposure may cause skin dryness or cracking.

Eye contact: Contact may cause tearing, redness, eye irritation.

Ingestion: Nausea, vomiting, abdominal pain.

After inhalation: May be irritating if absorbed via the respiratory tract if exposure occurs to vapours, mist, or fumes from thermal decomposition. May cause drowsiness, a state of unconsciousness.

11.2 Information on other hazards

Endocrine-disrupting properties:

The product has no effect on the endocrine system according to the assessment criteria set out in Regulations (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information:

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity of the mixture's components

Acetone:

Test results are available for acute aquatic toxicity; no data are available for sediment or soil.

Aquatic environment:

LC50: 8800 mg/l — acute toxicity study on freshwater invertebrates; *Daphnia pulex*, 48h

LC50: 2100 mg/l — acute toxicity study on saltwater invertebrates; *Artemia salina*, 24h

NOEC: 2212 mg/l — chronic toxicity study on invertebrates; *Daphnia magna*, 28 days

LOEC: 530 mg/l — acute toxicity study on freshwater algae; *Microcystis aeruginosa*, 8 days

NOEC: 430 mg/l — acute toxicity study on saltwater algae; *Prorocentrum minimum*, 96h

LC50: 5540 mg/l — acute toxicity study on freshwater fish; *Oncorhynchus mykiss*, 96h

LC50: 11000 mg/l — acute toxicity study on saltwater fish; *Alburnus alburnus*, 96h

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Sediment:

Toxicity study on sediment organisms: none (study scientifically unjustified)

Terrestrial environment:

Toxicity study on invertebrates: none (study scientifically unjustified)

Toxicity study on plants: none (study scientifically unjustified)

Toxicity study on earthworms: LC50 (48h): 100–1000 µg/cm²

Hydrocarbons, C6-C7

EL50: 3–22 mg/l — acute toxicity study on freshwater invertebrates; *Daphnia magna*, 48h

NOEC: 0.17 mg/l — chronic toxicity study on invertebrates; *Daphnia magna*, 21 days

EL50: 35.29 mg/l — acute toxicity study on freshwater algae; *Tetrahymena pyriformis*, 48h

LL50: 11.4 mg/l — acute toxicity study on freshwater fish; *Oncorhynchus mykiss*, 96h

NOEL: 2.028 mg/l — chronic toxicity study on fish; *Oncorhynchus mykiss*, 28 days

Dimethyl ether

LC50 >4.1 g/l, 96h, fish (*Poecilia reticulata*), NEN 6504

LC50 1758 mg/l, 96h, fish (freshwater fish)

Toxicity of the mixture

Toxic to aquatic life with long lasting effects.

To minimise long-term global pollution, consider:

- Reducing the use of single-use products and packaging.
- Participating in recycling activities.
- Preventing the product from entering water, sewage or soil.

12.2 Persistence and degradability

It disperses rapidly in air. Rapid oxidation occurs in air through a photochemical reaction.

12.3 Bioaccumulative potential

No data available for the mixture. Data for the constituents are given below:

Acetone: Bioconcentration factor (BCF): 3 (calculated value).

12.4 Mobility in soil

Gaseous components rapidly volatilise from the surface of soil and water. The mobility of substances depends on their hydrophilic and hydrophobic properties as well as on the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season (in Poland, a temperate transitional climate) and soil organisms, mainly 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 constituents included in the list drawn up in accordance with Article 59(1) as having endocrine-disrupting properties, or constituents identified as having endocrine-disrupting properties in accordance with the criteria set out in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

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

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Disposal of the product: Make sure containers are empty before disposal (risk of explosion). Do not pierce or burn, even when empty. Dispose of waste and residues in accordance with the requirements of local authorities.

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

Waste code: 16 05 04* — Gases in pressure containers (including halons) containing hazardous substances (the waste is included in the list of hazardous waste).

Legal basis: Act of 14 December 2012 on waste (Journal of Laws No. 0, item 21, consolidated text: Journal of Laws 2021, item 779) as amended by the Act of 17 November 2021 amending the Act on Waste and certain other acts (Journal of Laws 2021, item 2151); Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888, consolidated text: Journal of Laws 2020, item 1114, 2361, 2021, item 2151); Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

SECTION 14: TRANSPORT INFORMATION

The mixture is subject to regulations on the carriage of dangerous goods under ADR (road transport), RID (rail transport), ADN (inland waterway transport), IMDG (sea transport), ICAO/IATA (air transport). Provision 375 ADR/IMDG 2.10.2.7 When carried in single or combined packagings, if the single packagings or the inner packagings of combined packagings contain no more than 5 litres for liquids or 5 kg net for solids, they are not subject to any other ADR provisions, provided that the packagings meet the requirements set out in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of the ADR Agreement.

14.1 UN number or ID number

ADR/RID/IMDG/IATA: UN1950

14.2 UN proper shipping name

ADR/RID: AEROSOLS, flammable

IMDG/IATA: AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 2

14.4 Packing group

ADR/IMDG/IATA: Not applicable

14.5 Environmental hazards

ADR/RID/IMDG/IATA: The product is hazardous to the environment in accordance with the criteria contained in the UN Model Regulations. Additional entry in the transport document for packagings > 5 L: "ENVIRONMENTALLY HAZARDOUS" or "MARINE POLLUTANT / ENVIRONMENTALLY HAZARDOUS".

14.6 Special precautions for user

ADR

Packages should not be thrown or subjected to impact. Receptacles should be stowed on the vehicle or in the container so that they cannot overturn or fall. Wear personal protective equipment in accordance with Section 8 when handling the load. Avoid heating, direct sunlight and temperatures above 50°C. Packages containing these items should carry the following clear inscription: "UN 1950 AEROSOLS".

Note: The spraying devices of aerosol containers should be protected against accidental release of the container's contents. Aerosol containers with a capacity not exceeding 50 ml, not containing toxic constituents, are not subject to ADR provisions.

Tunnel restriction code: [D]

Transport category: 2

Limited quantities (3.4.6): 1L

Special provisions: 190, 327, 344, 625

Packing instructions: P207, LP200

IMDG:

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EmS Code F-D, S-U

Stowage: SW1; SW22

IATA

IATA (Passenger)

Excepted quantities (IATA): E0

Limited quantities (IATA): Y203

Limited quantities max. net quantity (IATA): 30 kg G

Packing instructions (IATA): 203

Maximum net quantity (IATA): 75 kg

IATA (Cargo)

Packing instructions (IATA): 203

Maximum net quantity (IATA): 150 kg

Special provisions (IATA): A145; A167; A802

ERG code (IATA): 10L

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Restrictions in accordance with REACH, Annex XVII	Mixture: No. 3, 40; 75
Seveso Directive 2012/18/EU (Seveso III)	P3a FLAMMABLE AEROSOLS (see note 11.1) "Flammable" aerosols of category 1 or 2 containing flammable gases of category 1 or 2 or flammable liquids of category 1. Threshold quantity (in tonnes) triggering the requirements for lower-tier establishments: 150 (net), and for upper-tier establishments: 500 (net). E2 Hazardous to the aquatic environment, chronic category 2. Threshold quantity (in tonnes) triggering the requirements for lower-tier establishments: 200, and for upper-tier establishments: 500.
REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors	Annex I CATEGORY 3 [Substances classified within the meaning of Article 2(a)] Acetone [67-64-1]
REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013	Acetone [67-64-1]: Annex II EXPLOSIVES PRECURSORS SUBJECT TO A REPORTING OBLIGATION

Other regulations

1. 1907/2006/EC Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

2. 1272/2008/EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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3. 2020/878/EU Commission Regulation of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
4. 2008/98/EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.
5. 94/62/EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste, as amended.
6. 2016/425/EU Regulation of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
7. 2020/878/EU Commission Regulation of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
8. Regulation of the Polish Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum admissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018.1286 of 3 July 2018).
9. Act of 25 February 2011 on chemical substances and their mixtures (consolidated text: Journal of Laws 2022, item 1816).
10. Act of 13 June 2013 on packaging and packaging waste management (consolidated text: Journal of Laws 2020, item 1114, as amended).
11. Act of 14 December 2012 on waste (consolidated text: Journal of Laws 2022, item 699, as amended).
12. Act on the carriage of dangerous goods of 19 August 2011 (Journal of Laws No. 227, item 1367). Consolidated text: Journal of Laws 2020, item 154, 875.
13. Government Declaration of 15 February 2021 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 2021, item 874).

15.2 Chemical safety assessment

The supplier has not carried out a chemical safety assessment. A chemical safety report is not required for the mixture.

SECTION 16: OTHER INFORMATION

Other sources of data:

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

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

Safety data sheet prepared by: Małgorzata Krenke [Based on the supplier's safety data sheet]

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

The above information has been prepared based on currently available data characterising the product and the manufacturer's experience and knowledge in this field. The data contained in this Safety Data Sheet should be treated solely as an aid for safe handling in transport, distribution, use and storage. This Safety Data Sheet is not a certificate of product quality. The information contained in this Safety Data Sheet relates only to the named product and may not be valid or sufficient for this product used in combination with other materials or for other uses. The user of the product is obliged to comply with all applicable standards and regulations and bears responsibility arising from improper use of the information contained in this Safety Data Sheet or improper use of the product.

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

Skin Irrit. 2	H315	calculation method
STOT SE 3	H336	calculation method

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Flam. Liq. 2	H225	flash point
Asp. Tox. 4	H304	calculation method
Repr. 2	H361f	calculation method
STOT RE 2	H373	calculation method
Aquatic Chronic 2	H411	calculation method
Skin Sens. 1	H317	calculation method
Aerosols 1	H222, H229	Based on test results

H-statements (indicating the type of hazard) used in Sections 2 and 3 of the Safety Data Sheet:

H304 May be fatal if swallowed and enters airways

Asp. Tox. 4 Aspiration hazard, Hazard Category 4

H225 Highly flammable liquid and vapour

Flam. Liq. 2 Flammable liquid, Hazard Category 2

H336 May cause drowsiness or dizziness

STOT SE 3 Specific target organ toxicity — single exposure, Hazard Category 3

H319 Causes serious eye irritation

Eye Irrit. 2 Eye irritation, Hazard Category 2

EUH066 Repeated exposure may cause skin dryness or cracking

H315 Causes skin irritation

Skin Irrit. 2 Skin irritation, Hazard Category 2

H361 Suspected of damaging fertility or the unborn child

Repr. 2 Reproductive toxicity, Hazard Category 2

H373 May cause damage to organs through prolonged or repeated exposure

STOT RE 2 Specific target organ toxicity — repeated exposure, Hazard Category 2

H411 Toxic to aquatic life with long lasting effects

Aquatic Chronic 2 Hazardous to the aquatic environment — chronic hazard, Category 2

H317 May cause an allergic skin reaction

Skin Sens. 1 Skin sensitisation, Hazard Category 1

H220 Extremely flammable gas

Flam. Gas 1 Flammable gas, Hazard Category 1

H280 Contains gas under pressure; may explode if heated

Press. Gas Flammable gas, Hazard Category 1

Explanation of abbreviations and acronyms

Abbreviation	Meaning
CEN	European Committee for Standardization
C&L	Classification and Labelling
CLP	Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008
CAS	Chemical Abstracts Service number

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Abbreviation	Meaning
COM	European Commission
CMR	Carcinogenic, mutagenic or toxic to reproduction
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC50	Median effective concentration
ECB	European Chemicals Bureau
ECHA	European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Standard
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IC50	Concentration causing 50 percent inhibition of a given parameter
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union of Pure and Applied Chemistry
LC50	Median lethal concentration
LD50	Median lethal dose
MSDS	Material Safety Data Sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Predicted environmental concentration
PNEC(s)	Predicted no-effect concentration(s)
PPE	Personal protective equipment
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Specific target organ toxicity
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure

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Abbreviation	Meaning
SVHC	Substance of Very High Concern
vPvB	Very persistent and very bioaccumulative [substance]
UN number	Material identification number under the ADR agreement.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime 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 Schedules for ships carrying dangerous goods
NDS	Occupational exposure limit — time-weighted average (TLV-TWA) (OEL-TWA) (PEL-TWA)
NDSch	Short-term exposure limit (TLV-STEL)
NDSP	Ceiling occupational exposure limit (TLV-C)

Training

Before starting work with the product, the user should familiarise themselves with occupational health and safety rules regarding handling chemicals, and in particular undergo appropriate workstation training. Persons involved in the transport of dangerous goods under the ADR Agreement should be appropriately trained in the performance of their duties (general, workstation-specific and safety training).

VERSION: 3.0 Amendments in Sections: 1-16