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

1.1 Product identifier

Product name

Flüssigbutylspray

UFI:

7NM2-X0W8-W00A-W7C6

https://my.chemius.net/p/GRO8T4/en/pd/en

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

Relevant identified uses

Adhesive.
Consumer use.
Professional use.
Industrial use.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

btf Innovationen für den Bau GmbH
Fahrenheitstr. 3
86899 Landsberg am Lech, Germany
+49(0)819194040-0
info@btf-innovationen.de

1.4 Emergency Telephone Number

Emergency

112

Supplier

+49(0)819194040-0

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229 Pressurised container: May burst if heated.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Signal word: DANGER

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU):

Not applicable.

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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P273 Avoid release to the environment.
P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Contains:

colophonium
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
acetone
n-hexane

2.3 Other hazards

PBT/vPvB

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Additional information

Vapors can form an explosive mixture with air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	25-50	Flam. Gas 1; H220 Press. Gas; H280	/	U
colophonium	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32	25-50	Skin Sens. 1; H317	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	- 921-024-6 - 01-2119475514-35	25-50	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/	/
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	2,5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/
n-hexane	110-54-3 203-777-6 601-037-00-0 01-2119480412-44	<2,5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373; C ≥ 5%	SVHC
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	<1	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/

Notes for substances

U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
SVHC	substance of very high concern

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). No action shall be taken involving any personal risk or without suitable training. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Seek medical help immediately. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If symptoms occur, seek medical attention.

Following ingestion

Never give anything by mouth to an unconscious person. Not likely. Accidental ingestion: Do not induce vomiting! Rinse mouth thoroughly with water. Drink plenty of water. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

May cause drowsiness or dizziness. Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing. Headache. Can come to alteration of reaction time and coordination abilities.

Following skin contact

Irritating to the skin. Itching, redness, pain. May cause an allergic skin reaction. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

Ingestion is unlikely because it is an aerosol. Accidental ingestion: May cause abdominal discomfort. May cause nausea/vomiting and diarrhea. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms of poisoning may appear several hours later. Keep under medical supervision for at least 48 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO_2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO_2).
Nitrogen oxides (NO_X). Smoke.

5.3 Advice for firefighters

Protective actions

No action shall be taken involving any personal risk or without suitable training. In case of fire, immediately restrict the area and evacuate all persons in the vicinity. In case of fire or heating do not breathe fumes/vapours. In case of fire aerosols can explode and be propelled to considerable distances in different directions. Prolonged heating can cause an explosion. Cool the endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing (BS EN 469) for firefighters (including helmets (BS EN 443), protective boots (BS EN 15090) and gloves (BS EN 659)) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent accumulation of vapours - vapours and air can form explosive mixtures. Vapours can accumulate in low-lying areas.

Emergency procedures

Evacuate the danger zone. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist.

For emergency responders

Use personal protective equipment. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. The product is an aerosol, which is why leakage of large amounts of product is not expected. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Use spark-proof tools. Use only explosion-proof instruments and equipment. Prevent release into the sewer, water, basements or confined areas. Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Do not absorb spillage with sawdust or other combustible material. In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled containers, absorb the residue with absorbent material and dispose of according to local regulations. Dispose in accordance with applicable regulations (see Section 13). Clean residue from spill site.

Other information

See Section 7: HANDLING AND STORAGE.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Vapours and air form explosive mixtures. Protect from open fire and other sources of ignition or heat. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Take precautionary measures against static discharges. Use only explosion-proof devices. Use spark-proof tools. Fire extinguishers should be kept handy.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Avoid release to the environment.

Other measures

No information.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety procedures. Consider measures required in Section 8 of this safety data sheet. Use personal protective equipment. Refer to instructions on label and regulations for safety and health at work. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/mist.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep away from food, drink and animal feeding stuffs. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used. Electrical installations /working materials must comply with the technological safety standards. Store in accordance with local regulations. Keep out of the reach of children. Keep in cool and well ventilated area. Keep away from sources of ignition - no smoking. Protect against heat and direct sunlight. Keep away from oxidising substances. Keep away from self-igniting materials. Protect from freezing. Keep away from incompatible products (see section 10).

Packaging materials

The original container of producer.

Requirements for storage rooms and vessels

Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

Directive 2012/18/EU (Seveso):
Seveso: P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) of dangerous substances for the application of Lower-tier requirements
150 (net)
Upper-tier requirements
500 (net)
E2 Hazardous to the Aquatic Environment in Category Chronic 2
Qualifying quantity (tonnes) of dangerous substances for the application of Lower-tier requirements
200
Upper-tier requirements
500

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m³	ml/m³	Short-term value mg/m³	Short-term value ml/m³	Remark	Biological Tolerance Values
Cycloalkanes ≥C7	800	/	/	/	/	/
Cycloalkanes C5 – C6	1800	/	/	/	/	/
Normal and branched chain alkanes ≥C7	1200	/	/	/	/	/
n-Hexane (110-54-3)	72	20	/	/	/	/
Acetone (67-64-1)	1210	500	3620	1500	/	/
Dimethyl ether (115-10-6)	766	400	958	500	/	/
Rosin-based solder flux fume (8050-09-7)	0.05	/	0.15	/	Sen	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
dimethyl ether	Worker	inhalation	long term systemic effects	/	1894 mg/m³
dimethyl ether	Consumer	inhalation	long term systemic effects	/	471 mg/m³
colophonium	Worker	inhalation	long term local effects	/	10 mg/m³
colophonium	Worker	dermal	long term systemic effects	/	2.131 mg/kg bw/day
colophonium	Consumer	dermal	long term systemic effects	/	1.065 mg/kg bw/day
colophonium	Consumer	oral	long term systemic effects	/	1.065 mg/kg bw/day
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	inhalation	long term systemic effects	/	2035 mg/m³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	dermal	long term systemic effects	/	773 mg/kg bw/day
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	inhalation	long term systemic effects	/	608 mg/m³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	dermal	long term systemic effects	/	699 mg/kg bw/day
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	oral	long term systemic effects	/	699 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
dimethyl ether	fresh water	/	0.155 mg/L
dimethyl ether	water, intermittent release	/	1.549 mg/L

Name	Exposure route	Remark	Value
dimethyl ether	marine water	/	0.016 mg/L
dimethyl ether	water treatment plant	/	160 mg/L
dimethyl ether	fresh water sediment	dry weight	0.681 mg/kg
dimethyl ether	marine water sediment	dry weight	0.069 mg/kg
dimethyl ether	soil	dry weight	0.045 mg/kg
colophonium	fresh water	/	0.002 mg/L
colophonium	water, intermittent release	/	0.016 mg/L
colophonium	marine water	/	0 mg/L
colophonium	water treatment plant	/	1000 mg/L
colophonium	fresh water sediment	dry weight	0.007 mg/kg
colophonium	marine water sediment	dry weight	0.001 mg/kg
colophonium	soil	dry weight	0 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. If technical measures to reduce workers' exposure are not sufficient, and the limit values of hazardous substances in the air are exceeded, it is necessary to use personal protective equipment. Use personal protective equipment in accordance with the Regulation (EU) 2016/425.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection. Remove contaminated clothes and wash them before reuse. Store protective clothing separate from regular clothing.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

If there is a risk of eye contact use safety glasses. Tight-fitting protective goggles (BS EN ISO 16321-1:2022/A1:2025).

Hand protection

Protective gloves (BS EN ISO 374). The product is a mixture of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Viton (fluorinated rubber)	0.7 mm	15 min	BS EN ISO 374

Skin protection

Choose body protection according to the activity and possible exposure. Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022+A1:2024). Protective antistatic clothing BS EN 1149 (1:2006, 2:1997 and 3:2004, 5:2018), protective antistatic shoes (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the workplace exposure limits are exceeded, it is necessary to wear appropriate respiratory protection. Protective masks (BS EN 136) or half masks (BS EN 140) with filter AX (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	aerosol
Colour	white yellow
Odour	characteristic
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	3.3 — 26.2 % v/v (propellant) 1.1 — 13 % v/v (data refers to the liquid portion of the product)
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	Substance/mixture is non-soluble (in water).
Viscosity	No information.

Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	246 hPa
Density	0.87 g/cm^3 at 20 °C (data refers to the liquid portion of the product)
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	537.6 g/L (VOC - includes the propellant) 69 % (VOC - includes the propellant)

Other information

Product is not explosive. However, formation of explosive air/ vapour mixtures is possible.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Vapours may form explosive mixture with air.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Reacts with strong oxidising agents.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight. Avoid contact with incompatible materials.

10.5 Incompatible materials

Oxidants. HF (hydrofluoric acid). Oxygen. Rubber. Viton.

10.6 Hazardous decomposition products

In case of fire/explosion vapours/gases that pose a health hazard are released. Hazardous combustion products, see Section 5 of the safety data sheet.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	oral	LD_{50}	rat	/	> 5840 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	dermal	LD_{50}	rat	/	> 2920 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	inhalation (vapours)	LC_{50}	rat	4 h	> 25.2 mg/L	/	/
acetone	oral	LD_{50}	rat	/	5800 mg/kg	/	/
acetone	dermal	LD_{50}	rabbit	/	> 7426 mg/kg	/	/
acetone	inhalation	LC_{50}	rat	3 h	55700 ppm	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

No information.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

No information.

Additional information

The product is not classified as an irritant to the eyes.

(d) Respiratory or skin sensitisation

No information.

Additional information

May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

For product

Type	Species	Time	Result	Method	Remark
/	/	/	The chemical is not classified as mutagenic.	/	/

(f) Carcinogenicity

For product

Exposure route	Type	Species	Time	Value	Result	Method	Remark
/	/	/	/	/	The chemical is not classified as carcinogenic.	/	/

(g) Reproductive toxicity

For product

Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
/	/	/	/	/	The chemical is not classified as toxic for reproduction.	/	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT-(single exposure): May cause drowsiness or dizziness.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EL_{50}	3 mg/L	48 h	crustacea	*Daphnia magna*	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	LL_{50}	11.4 mg/L	96 h	fish	*Oncorhynchus mykiss*	OECD 203	/
acetone	LC_{50}	7280 mg/L	96 h	fish	/	/	/
acetone	LC_{50}	8800 mg/L	48 h	daphnia	/	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	NOELR	2.045 mg/L	28 days	fish	*Oncorhynchus mykiss*	QSAR	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	NOELR	1 mg/L	21 days	crustacea	*Daphnia magna*	/	/
acetone	EC_{50}	2844 mg/L	14 days	algae	/	/	/

Additional information

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	biodegradability	83 %	10 days	readily biodegradable	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	biodegradability	98 %	28 days	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Water hazard class 2 (self-assessment): hazardous for water. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Avoid release to the environment. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Product and container must be disposed of safely.

Waste codes / waste designations according to LoW

16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Packaging

Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

15 01 11* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
UN 1950	UN 1950	UN 1950	UN 1950

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
AEROSOLS	AEROSOLS (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	AEROSOLS	AEROSOLS

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
2	2	2	2
			

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
YES	Marine pollutant	YES	YES

14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: **1 L** Special provisions: **190, 327, 344, 625** Packing Instructions: **P207, LP200** Special packing provisions: **PP87, RR6, L2** Transport category: **2** Tunnel restriction code: **(D)** Classification code: **5F**	Limited quantities: **1 L** EmS: **F-D, S-U**	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst): **Y203** Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg): **30 kg G** Packing Instructions (Pkg Inst): **203** Maximum Net Quantity/Package (Max Net Qty/Pkg): **25 kg** Special provisions: **A145, A167, A802**	Limited quantities: **1 L**

14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
/	Goods may not be carried in bulk in bulk containers, containers or vehicles.	/	/

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Water hazard class 2 (self-assessment): hazardous for water. Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Terms of restriction: 3.
REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors:
ANNEX II REPORTABLE EXPLOSIVES PRECURSORS:

Acetone (CAS: 67-64-1).
All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

1.1 Product identifier 1.3 Details of the supplier of the safety data sheet 1.4 Emergency Telephone Number 3.2 Mixtures 4.1 Description of first aid measures 5.3 Advice for firefighters 7.2 Conditions for safe storage, including any incompatibilities 8.1 Control parameters 8.2 Exposure controls 9.2 Other information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.2 Information on other hazards 12.1 Toxicity 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Training advice

Ensure adequate training of the persons responsible for the use of chemicals.