

SAFETY DATA SHEET

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended

DISCOVER AIR FRESHENER SPRAY LEMON

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

1.1. Product identifier

DISCOVER AIR FRESHENER SPRAY LEMON
UFI: 6GQ1-N0PT-Q00H-50VU

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

Air freshener

No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier/Manufacturer Güler Elektronik Kozmetik Kimya San. Ve Tic. Hasan Güler
İstoç Ticaret Merkezi 1.Ada No:86-88 Bağcılar – İstanbul / Turkey
T: +90 212 631 69 37
E-mail : info@gulerelektronik.com

1.4. Emergency telephone number



T: +90 212 631 69 37

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Physico-chemical hazards	Health hazards	Environmental hazards
Aerosol 1 - H222, H229	Skin Sens. 1-H317 Eye Irrit. 2-H319	Aquatic Chronic 3-H412
<ul style="list-style-type: none">- The full text for all hazard statements is displayed in Section 16.- Classification [(UK)SI 2019 No.720] and Regulation (EC) No.1272/2008]		

2.2. Label elements

Hazard pictograms			-	-	-
Signal word	Danger				
Contains	d-Limonene				
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.				

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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. P280 Wear protective gloves, protective clothing, eye protection, face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container in accordance with national regulations.
Additional label information	Not applicable.
- Labeling; Regulation (EC) No. 1272/2008	

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

w/w%	Substance name	Identifiers CAS number EC number	Classification SI 2019 No.720 and Regulation(EC)No.1272/2008	Specific Conc. Limits, M-Factors, Acute Toxicity Estimates-ATE
35-45	Ethanol	64-17-5 200-578-6	Flam. Liq. 2-H225 Eye Irrit. 2-H319	Eye Irrit. 2; : C ≥ 50 %
20-30	Butane	106-97-8 203-448-7	Flam. Gas 1A - H220 Press. Gas (Liq.) - H280	-
20-30	Isobutane	75-28-5 200-857-2	Flam. Gas 1A - H220 Press. Gas (Liq.) - H280	-
10-25	Propane	74-98-6 200-827-9	Flam. Gas 1A - H220 Press. Gas (Liq.) - H280	-
1-5	(R)-p-mentha-1,8-diene d-Limonene	5989-27-5 227-813-5	Flam. Liq. 3-H226 Skin Irrit. 2-H315 Skin Sens. 1B-H317 Asp. Tox. 1-H304 Aquatic Acute 1-H400 Aquatic Chronic 3-H412	M factor (Acute):1
<1	Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2-H315 Skin Sens. 1B-H317 Eye Irrit. 2-H319	-

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<1	Linalool	78-70-6 201-134-4	Skin Irrit. 2-H315 Skin Sens. 1B-H317 Eye Irrit. 2-H319	-
<1	(-)-pin-2(10)-ene	18172-67-3 242-060-2	Flam. Liq. 3-H226 Asp. Tox. 1-H304 Skin Irrit. 2-H315 Skin Sens. 1B-H317 Aquatic Acute 1-H400 Aquatic Chronic 1-H410	M factor (Acute):1 M factor (Chronic):1
<1	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9	Aquatic Acute 1-H400 Aquatic Chronic 1-H410	M factor (Acute):1 M factor (Chronic):1
<1	p-mentha-1,4-diene	99-85-4 202-794-6	Flam. Liq. 3-H226 Repr. 2-H361 Aquatic Chronic 2-H411	-
<1	Citral	5392-40-5 226-394-6	Skin Irrit. 2-H315 Skin Sens. 1-H317	-
<1	1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2 259-174-3	Skin Irrit. 2-H315 Skin Sens. 1B-H317 Aquatic Chronic 1-H410	M factor (Chronic):1
<1	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one >Endocrine Disrupting<	1506-02-1 216-133-4	Acute Tox. 4 -H302 Aquatic Acute 1-H400 Aquatic Chronic 1-H410	M factor (Acute):1 M factor (Chronic):1
<1	[3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9 251-020-3	Skin Sens. 1B-H317 Aquatic Acute 1-H400 Aquatic Chronic 1-H410	M factor (Acute):1 M factor (Chronic):1
<ul style="list-style-type: none"> - The full text for all hazard statements is displayed in Section 16. - Substances with occupational exposure limit values are shown in Section 8.1. - The product does not contain any nanomaterials. 				

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a

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	position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. If in doubt, get medical attention promptly.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing.

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

Inhalation	There are no known symptoms.
Ingestion	May cause irritation. May cause nausea and vomiting.
Skin contact	Redness. Itching. Prolonged contact may cause dryness of the skin. Allergic reaction.
Eye contact	Irritation. Redness. Itching.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

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Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. No smoking, sparks, flames or other sources of ignition near spillage. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant.

Small Spillages: Collect spills by absorbing with suitable material.

Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. The product is flammable. Take precautionary measures against static discharges. Avoid exposing aerosol containers to high temperatures or direct sunlight. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

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Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. Take precautionary measures against static discharges. Keep away from oxidising materials, heat and flames. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

Storage class : Aerosol containers.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Substance name	TWA(Time Weighted Average) 8 hours	STEL(Short Term Exposure Limit) 15 minutes
Ethanol CAS: 64-17-5	500 ppm. 960 mg/m ³	1000 ppm. 1920 mg/m ³
Butane CAS: 106-97-8	600 ppm 1450 mg/m ³	750 ppm 1810 mg/m ³
Isobutane CAS: 75-28-5	600 ppm	750 ppm
Propane CAS: 74-98-6	1000 ppm 1800 mg/m ³	2.8 mg/m ³

Substance name	DNELs	PNECs
Ethanol CAS: 64-17-5	Workers - Inhalation; Long term, systemic effects: 380 mg/m ³ Workers - Dermal; Long term, systemic effects: 8238 mg/kg/day General population - Inhalation; Long term, systemic effects: 114 mg/m ³	PNEC aqua (freshwater): 0.96 mg/L PNEC freshwater (intermittent releases): 2.75 mg/L PNEC aqua (marine water): 0.79 mg/L PNEC STP: 580 mg/L PNEC sediment (freshwater): 3.6 mg/kg sediment dw PNEC sediment (marine water): 2.9 mg/kg sediment dw PNEC soil: 0.63 mg/kg soil dw PNEC oral: 0.38 g/kg food
d-Limonene CAS: 5989-27-5	Workers - Inhalation; Long term, systemic effects: 66.7 mg/m ³ Workers - Dermal; Long term, systemic effects: 9.5 mg/kg/day	PNEC aqua (freshwater): 14 µg/L PNEC aqua (marine water): 1.4 µg/L PNEC STP: 1.8 mg/L

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	<p>Consumer - Inhalation; Long term, systemic effects: 16.6 mg/m³</p> <p>Consumer - Dermal; Long term, systemic effects: 4.8 mg/kg/day</p> <p>Consumer - Oral; Long term, systemic effects: 4.8 mg/kg/day</p>	<p>PNEC sediment (freshwater): 3.85 mg/kg sediment dw</p> <p>PNEC sediment (marine water): 0.385 mg/kg sediment dw</p> <p>PNEC soil: 0.763 mg/kg soil dw</p> <p>PNEC oral: 133 mg/kg food</p>
Linalyl acetate CAS: 115-95-7	<p>Workers - Inhalation; Long term, systemic effects: 2.75 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 2.5 mg/kg/day</p> <p>Consumer - Inhalation; Long term, systemic effects: 0.68 mg/m³</p> <p>Consumer - Dermal; Long term, systemic effects: 1.25 mg/kg/day</p> <p>Consumer - Oral; Long term, systemic effects: 0,2 mg/kg/day</p>	<p>PNEC aqua (freshwater): 0.011 mg/L</p> <p>PNEC aqua (marine water): 0.001 mg/L</p> <p>PNEC freshwater (intermittent releases): 0.11 mg/L</p> <p>PNEC STP: 1 mg/L</p> <p>PNEC sediment (freshwater): 0.609 mg/kg sediment dw</p> <p>PNEC sediment (marine water): 0.061 mg/kg sediment dw</p> <p>PNEC soil: 0.115 mg/kg soil dw</p>
Linalool CAS: 78-70-6	<p>Workers - Inhalation; Long term, systemic effects: 24.58 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 3.5 mg/kg/day</p> <p>Consumer - Inhalation; Long term, systemic effects: 4.33 mg/m³</p> <p>Consumer - Dermal; Long term, systemic effects: 1.25 mg/kg/day</p> <p>Consumer - Oral; Long term, systemic effects: 2.49 mg/kg/day</p>	<p>PNEC aqua (freshwater): 0.2 mg/L</p> <p>PNEC aqua (marine water): 0.02 mg/L</p> <p>PNEC freshwater (intermittent releases): 2 mg/L</p> <p>PNEC STP: 10 mg/L</p> <p>PNEC sediment (freshwater): 2.22 mg/kg sediment dw</p> <p>PNEC sediment (marine water): 0.222 mg/kg sediment dw</p> <p>PNEC soil: 0.327 mg/kg soil dw</p> <p>PNEC oral: 7.8 mg/kg food</p>
(-)-pin-2(10)-ene CAS: 18172-67-3	<p>Workers - Inhalation; Long term, systemic effects: 5.69 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 0.8 mg/kg/day</p> <p>General population - Inhalation; Long term, systemic effects: 1 mg/m³</p> <p>General population - Dermal; Long term, systemic effects: 0.3 mg/kg/day</p> <p>General population - Oral; Long term, systemic effects: 0.3 mg/kg/day</p>	<p>PNEC aqua (freshwater): 1.004 µg/L</p> <p>PNEC aqua (marine water): 0.1 µg/L</p> <p>PNEC freshwater (intermittent releases): 5.02 µg/L</p> <p>PNEC STP: 3.26 mg/L</p> <p>PNEC sediment (freshwater): 0.337 mg/kg sediment dw</p> <p>PNEC sediment (marine water): 0.034 mg/kg sediment dw</p> <p>PNEC soil: 0.067 mg/kg soil dw</p> <p>PNEC oral: 13.1 mg/kg food</p>
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5	<p>Workers - Inhalation; Long term, systemic effects: 13.5 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 36.7 mg/kg/day</p> <p>Consumer - Inhalation; Long term, systemic effects: 4 mg/m³</p>	<p>PNEC aqua (freshwater): 6.8 µg/L</p> <p>PNEC aqua (marine water): 0.44 µg/L</p> <p>PNEC STP: 1 mg/L</p> <p>PNEC sediment (freshwater): 2 mg/kg sediment dw</p> <p>PNEC sediment (marine water): 0.394 mg/kg sediment dw</p>

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	<p>Consumer - Dermal; Long term, systemic effects: 22 mg/kg/day</p> <p>Consumer - Oral; Long term, systemic effects: 2.3 mg/kg/day</p>	<p>PNEC soil: 1.5 mg/kg soil dw PNEC oral: 20.4 mg/kg food</p>
p-mentha-1,4-diene CAS: 99-85-4	<p>Workers - Inhalation; Long term, systemic effects: 23.5 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 3.3 mg/kg/day</p> <p>General population - Inhalation; Long term, systemic effects: 5.8 mg/m³</p> <p>General population - Dermal; Long term, systemic effects: 1.67 mg/kg/day</p> <p>General population - Oral; Long term, systemic effects: 1.67 mg/kg/day</p>	<p>PNEC aqua (freshwater): 0.003 mg/L PNEC aqua (marine water): 0.0003 mg/L PNEC STP: 10 mg/L PNEC sediment (freshwater): 0.49 mg/kg sediment dw PNEC sediment (marine water): 0.049 mg/kg sediment dw PNEC soil: 0.423 mg/kg soil dw</p>
Citral CAS: 5392-40-5	<p>Workers - Inhalation; Long term, systemic effects: 9 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 1.7 mg/kg/day</p> <p>General population - Inhalation; Long term, systemic effects: 2.7 mg/m³</p> <p>Workers - Dermal; Long term, local effects: 140 µg/cm²</p> <p>General population - Dermal; Long term, systemic effects: 1 mg/kg/day</p> <p>General population - Dermal; Long term, local effects: 140 µg/cm²</p> <p>General population - Oral; Long term, systemic effects: 0.6 mg/kg/day</p>	<p>PNEC aqua (freshwater): 0.007 mg/L PNEC aqua (marine water): 0.001 mg/L PNEC freshwater (intermittent releases): 0.068 mg/L PNEC STP: 1.6 mg/L PNEC sediment (freshwater): 0.125 mg/kg sediment dw PNEC sediment (marine water): 0.013 mg/kg sediment dw PNEC soil: 0.021 mg/kg soil dw</p>
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS 1506-02-1	<p>Workers - Inhalation; Long term, systemic effects: 0.175 mg/m³</p> <p>Workers - Inhalation; Short term, systemic effects: 0.525 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 0.61 mg/kg/day</p> <p>General population - Inhalation; Long term, systemic effects: 0.043 mg/m³</p> <p>General population - Inhalation; Short term, systemic effects: 0.131 mg/m³</p> <p>General population - Dermal; Long term, systemic effects: 0.305 mg/kg/day</p> <p>General population - Oral; Long term, systemic effects: 0.013 mg/kg/day</p>	<p>PNEC aqua (freshwater): 2.2 µg/LL PNEC aqua (marine water): 0.22 µg/L PNEC STP: 2.2 mg/L PNEC sediment (freshwater): 1.72 mg/kg sediment dw PNEC sediment (marine water): 0.345 mg/kg sediment dw PNEC soil: 0.01 mg/kg soil dw PNEC oral: 1.1 mg/kg food</p>

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<p>[3R-(3α,3aβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9</p>	<p>Workers - Inhalation; Long term, systemic effects: 1.17 mg/m³</p> <p>Workers - Dermal; Long term, systemic effects: 0.333 mg/kg/day</p> <p>General population - Inhalation; Long term, systemic effects: 0.29 mg/m³</p> <p>General population - Dermal; Long term, systemic effects: 0.167 mg/kg/day</p> <p>General population - Oral; Long term, systemic effects: 0.167 mg/kg/day</p>	<p>PNEC aqua (freshwater): 1.74 µg/L PNEC aqua (marine water): 0.174 µg/L PNEC freshwater (intermittent releases): 8.6 µg/L PNEC STP: 10 mg/L PNEC sediment (freshwater): 24.4 mg/kg sediment dw PNEC sediment (marine water): 2.44 mg/kg sediment dw PNEC soil: 4.87 mg/kg soil dw</p>
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8.2. Exposure controls

Personal Protective Equipment	
Appropriate engineering controls	<p>Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.</p>
Hand protection	<p>Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.</p> <p>Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Neopren rubber.</p>
Body protection	<p>Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.</p>
Eye/face protection	<p>Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.</p>
Respiratory protection	<p>Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-</p>

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	marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Thermal hazards	Information is not required.
Environmental exposure controls	Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Method
Appearance	Liquid. Aerosol.	-
Color	Various.	-
Odour	Perfume.	-
pH value	No data available.	-
Melting point/ freezing point	No data available.	-
Initial boiling point and range	No data available.	-
Flash point	No data available.	-
Flammability	No data available.	-
Upper/lower flammability or explosive limits	No data available.	-
Vapour pressure	No data available.	-
Relative vapour density	No data available.	-
Density and/or relative density	No data available.	-
Solubility(ies)	No data available.	-
Partition coefficient: n-oktanol/su	No data available.	-
Auto-ignition temperature	No data available.	-

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Decomposition Temperature	No data available.	-
Viscosity	No data available.	-
Particle characteristics	No data available.	-

9.2. Other information

Information with regard to physical hazard classes

Properties	Value	Method
No data available.	No data available.	-

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated

10.5. Incompatible materials

Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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SECTION 11:	TOXICOLOGICAL INFORMATION
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11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
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Name	Acute toxicity Oral (ATE)	Acute toxicity Dermal (LD50 or ATE)	Acute toxicity Inhalation (LC50 or ATE)
Mixture	>2000 mg/kg	-	-
Result for the mixture	Classification criteria are not met.	Classification criteria are not met.	Classification criteria are not met.

Substance Name	Acute toxicity Oral (LD50 or ATE)	Acute toxicity Dermal (LD50 or ATE)	Acute toxicity Inhalation (LC50 or ATE)
Butane CAS: 106-97-8	-	-	>800.000 ppm, 15 dk. Rat.
Izobutane CAS: 75-28-5	-	-	570000 ppm, 15 dk. Rat.
Propane CAS: 74-98-6	-	-	>800.000 ppm, 15 dk. Rat.
Ethanol CAS: 64-17-5	10470 mg/kg bw Rat. OECD Guideline 401 (Acute Oral Toxicity)	17100 mg/kg bw Rat.	117 -125 mg/l Rat. OECD Guideline 403 (Acute Inhalation Toxicity)
d-Limonene CAS: 5989-27-5	> 2000 mg/kg bw. Rat. OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	> 5000 mg/kg bw Rabbit.	-
Linalyl acetate CAS: 115-95-7	>9000 mg/kg Rat.	> 5000 mg/kg bw Rabbit	-
Linalool CAS: 78-70-6	2790mg/kg bw. Rat. OECD Guideline 401 (Acute Oral Toxicity)	5610 mg/kg bw Rabbit. OECD Guideline 402 (Acute Dermal Toxicity)	-
Citral CAS: 5392-40-5	6800 mg/kg Rat.	-	-
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS 1506-02-1	920 mg/kg Rat. OECD Guideline 401 (Acute Oral Toxicity)	7940 mg/kg bw Rat.	-
[3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9	4500 mg/kg Rat. OECD Guideline 401 (Acute Oral Toxicity)	> 5000 mg/kg bw Rabbit. OECD Guideline 402 (Acute Dermal Toxicity)	-

Skin corrosion/irritation	Based on available data the classification criteria are not met.
Linalool CAS: 78-70-6	Irritant for skin. Rabbit. OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Citral CAS: 5392-40-5	Irritant for skin. Rabbit.

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d-Limonene CAS: 5989-27-5	Irritant for skin. Rabbit. OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Serious eye damage/irritation	Causes serious eye irritation.
Linalool CAS: 78-70-6	Irritant for eyes. Rabbit. OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Citral CAS: 5392-40-5	Irritant for eyes. Rabbit. OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Respiratory or skin sensitisation	May cause an allergic skin reaction.
d-Limonene CAS: 5989-27-5	Migrated information OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Mouse Sensitising
Linalyl acetate CAS: 115-95-7	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Mouse Sensitising
Linalool CAS: 78-70-6	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Mouse Sensitising
(-)-pin-2(10)-ene CAS: 18172-67-3	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Mouse Sensitising
Citral CAS: 5392-40-5	OECD Guideline 406 (Skin Sensitisation) Guinea pig maximisation test Guinea pig Sensitising
[3R-(3 α ,3a β ,7 β ,8a α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Mouse Sensitising
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Butane CAS: 106-97-8	Genotoxicity - in vitro Bacterial reverse mutation test, (OECD 471): Negative. In vitro chromosomal aberration test, (OECD 473): Negative. Genotoxicity – in vivo Mammalian Erythrocyte Micronucleus Test, (OECD Guideline 474), Rat: Negative. Based on test results of similar product.
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity Fertility effect Development effect	Based on available data the classification criteria are not met.
Specific target organ toxicity single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	Based on available data the classification criteria are not met.

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Repeated dose toxicity	Based on available data the classification criteria are not met.
Butane CAS: 106-97-8	NOEL: >9000 ppm, Species: Rat, Application method: Inhalation (gas), Exposure time: 6 Weeks (OECD 422)

11.2. Information on other hazards

Endocrine disrupting properties	Product contain endocrine disrupting substances. CAS: 1506-02-1
Other information	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Dangerous for the environment and watercourses.
Harmful to aquatic life with long lasting effects.

Substance name	Acute or chronic toxicity
Isobutane CAS: 75-28-5	Acute toxicity - fish LC ₅₀ , 96 hours: 24.11 mg/l Acute toxicity - aquatic invertebrates EC ₅₀ , 48 hours: 14.22 mg/l, Daphnia magna (Water flea) Acute toxicity - aquatic plants EC ₅₀ , 72 hours: 7.71 mg/l, Algae
Ethanol CAS: 64-17-5	Acute toxicity - fish LC ₅₀ , 96 hours: 11200 mg/L, Salmo gairdneri Chronic toxicity - fish NOEC: 250 mg/L Acute toxicity – aquatic invertebrates EC ₅₀ , 48 hours: 5012 mg/l, Daphnia magna Chronic toxicity – aquatic invertebrates NOEC: 9.6 mg/L, Daphnia magna Acute toxicity - Algae EC ₅₀ , 72 hours: 275 mg/l, Chlorella vulgaris Acute toxicity - Algae EC ₅₀ , 72 hours: 1900 mg/l, Heterosigma akashiwo Chronic toxicity - Algae EC10: 11.5 mg/l, Chlorella vulgaris Chronic toxicity - Algae NOEC: 1580 mg/l Acute toxicity - microorganisms EC ₅₀ , 4 hours: 5800 mg/l, Paramaecium caudatum
d-Limonene CAS: 5989-27-5	Acute toxicity - fish LC ₅₀ , 96 hours: 720 µg/L, Pimephales promelas

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	<p>Chronic toxicity - fish NOEC: 0.37 mg/L, Pimephales promelas</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 0.307 mg/l, Daphnia magna</p> <p>Chronic toxicity – aquatic invertebrates NOEC: 0.153 mg/L, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: 0.32 mg/l, Pseudokirchneriella subcapitata</p> <p>Chronic toxicity - Algae NOEC: 0.174 mg/l, Pseudokirchneriella subcapitata</p>
Linalyl acetate CAS: 115-95-7	<p>Acute toxicity - fish LC₅₀, 96 hours: 27.8 mg/l, Salmo gairdneri</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 59 mg/l, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours:68 mg/l</p> <p>Chronic toxicity - Algae NOEC: 3.9 mg/l</p>
Linalool CAS: 78-70-6	<p>Acute toxicity - fish LC₅₀, 96 hours: 11 mg/l</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 59 mg/l, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: 156.7 mg/l, Scenedesmus subspicatus</p> <p>Chronic toxicity - Algae NOEC: 54.3 mg/l, Scenedesmus subspicatus</p>
(-)-pin-2(10)-ene CAS: 18172-67-3	<p>Acute toxicity - fish LC₅₀, 96 hours: 0.502 mg/l, Pimephales promelas</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 1.194 mg/l, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: 0.826 mg/l, Pseudokirchneriella subcapitata</p> <p>Chronic toxicity - Algae NOEC: 0.378 mg/l, Pseudokirchneriella subcapitata</p>
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5	<p>Acute toxicity - fish LC₅₀, 96 hours: 0.95 mg/l, Oryzias latipes</p> <p>Chronic toxicity - fish NOEC: 0.068 mg/l, Pimephales promelas</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 0.194 mg/l, Daphnia magna</p> <p>Chronic toxicity – aquatic invertebrates NOEC: 0.111 mg/l, Daphnia magna</p>

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	<p>Chronic toxicity - Algae NOEC: 0.201 mg/l, Pseudokirchneriella subcapitata</p>
p-mentha-1,4-diene CAS: 99-85-4	<p>Acute toxicity - fish LC₅₀, 96 hours: 2.79 mg/l, Danio rerio</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 10.19 mg/l, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: >10.82 mg/l, Scenedesmus capricornutum</p>
Citral CAS: 5392-40-5	<p>Acute toxicity - fish LC₅₀, 96 hours: 6.78 mg/l</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 6.8 mg/l, Daphnia magna</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: 103.84 mg/l, Scenedesmus subspicatus</p> <p>Acute toxicity - microorganisms EC₅₀, 30 minutes: 160 mg/l, Activated Sludge</p>
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9	<p>Acute toxicity - fish LC₅₀, 96 hours: 2.3 mg/l</p> <p>Acute toxicity – aquatic invertebrates EC₅₀, 48 hours: 0.86 mg/l</p> <p>Chronic toxicity – aquatic invertebrates NOEC: 0.087 mg/L</p> <p>Acute toxicity - Algae EC₅₀, 72 hours: 4.3 mg/l</p> <p>Chronic toxicity - Algae NOEC: 1.07 mg/l</p>

12.2. Persistence and degradability

The degradability of the product is not known. Expected to be readily biodegradable.

Substance name	Degradability data
Ethanol CAS: 64-17-5	Fresh water: Readily biodegradable (2 studies), inherently biodegradable (1 study) Salt water: readily biodegradable (1 study) Anaerobic conditions: degradable, complete mineralisation (1 study)
d-Limonene CAS: 5989-27-5	>70% degradation after 28-days. OECD 301D. Readily biodegradable.
Linalyl acetate CAS: 115-95-7	76% degradation after 28-days. OECD 301F. Readily biodegradable.

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Linalool CAS: 78-70-6	64% degradation after 28-days. OECD 301D. Readily biodegradable.
(-)-pin-2(10)-ene CAS: 18172-67-3	76% degradation after 28-days. OECD 301D. Readily biodegradable.
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5	DT50 aquatic compartment: 4.2 days DT50 sediment compartment: 79 days DT50 soil compartment: 35 days (EPI) Suite v4.119 (EPA, 2011) BIOWIN models Not readily biodegradable.
Citral CAS:5392-40-5	>90% degradation after 28-days. EU Method C.4-D. Readily biodegradable.
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS 1506-02-1	<10% degradation after 28-days. Not readily biodegradable.
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9	36% degradation after 28-days. Not readily biodegradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation. The product does not contain any substances expected to be bioaccumulating.

Substance name	Bioaccumulative data
Ethanol CAS: 64-17-5	The substance has a low potential for bioaccumulation (log Kow3) and therefore testing for bioaccumulation is not required.
Butane CAS: 106-97-8	Distribution coefficient, log Pow: 2.89 Bioaccumulation potential is low.
Propane CAS: 74-98-6	Distribution coefficient, log Pow: 2.89 Bioaccumulation potential is low.
d-Limonene CAS: 5989-27-5	BCF (aquatic species): 690.1 L/kg ww Potential bioaccumulative.
Linalyl acetate CAS: 115-95-7	log Pow of 3.9 BCF: 174 L/kg ww. Calculated. Low bioconcentration potential.
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5	BCF (aquatic species): 1584 L/kg ww Potential bioaccumulative.
Citral CAS: 5392-40-5	log Pow of 2.76 Significant accumulation in organisms is not to be expected.
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS 1506-02-1	BCF (aquatic species): 597 L/kg ww Bluegill Sunfish BCF Value: 1313 High potential for bioaccumulation.
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-	BCF Value: 3920 High potential for bioaccumulation.

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tetramethyl-1H-3a,7-
methanoazulen-5-yl)ethan-1-one
CAS: 32388-55-9

12.4. Mobility in soil

The product contains substances which are water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Product contain endocrine disrupting substances.
CAS: 1506-02-1

12.7. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Empty containers or liners may retain some product residues and hence be potentially hazardous. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number

UN number ADR, IMDG, IATA, ICAO, ADN	1950
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14.2. UN proper shipping name

UN proper shipping name ADR, IMDG, IATA, ICAO, ADN	AEROSOLS, flammable
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14.3. Transport hazard class(es)

Transport hazard class	2.1
Shipping label number	2.1

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ADR/RID classification code	5F
Transport labels	

14.4. Packing group

Packing group ADR, IMDG, IATA, ICAO, ADN	None.
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14.5. Environmental hazards

Environmental hazardous properties	No.
Marine pollutant properties	No.

14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)
Limited quantity	1 L

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

EU legislation

Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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 (as amended).

Seveso Directive - Control of major accident hazards

Seveso code	Lower-tier (metric tons)	Upper-tier (metric tons)
P3a	150	500

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Commission Regulation (EC) No 1907/2006 REACH	
Authorisations (Annex XIV Regulation 1907/2006 and UK REACH)	No.
Restrictions (Annex XVII Regulation 1907/2006) and UK REACH)	Butane. Entry Number: 40. Isobutane Entry No: 40. Propane Entry No: 40.
SVHC list	No.
Other regulations	
POP-Persistent Organic Pollutant	No.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Explanations of abbreviations used in the SDS

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
TWA: Time-weighted average
ATE: Estimated acute toxicity value
EC No: Substance-specific number assigned by the European Community
CAS No: Substance-specific number assigned by the Chemical Abstracts Service.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
DNEL: Derived No Effect Level
PNEC: Estimated No Effect Concentration
STOT: Specific Target Organ Toxicity
SVHC: Substances of Very High Concern

Classification procedures

Classification	Justification
Aerosol 1 - H222, H229	Test-based expert judgment
Eye Irrit. 2-H319	Calculation method.
Skin Sens. 1-H317	Calculation method.
Aquatic Chronic 3-H412	Calculation method.

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Revision comments	
0.0.	This is the first issue.

Hazard statements in full	
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
H361	Suspected of damaging fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

Issued by
This SDS was written by ChemRAS for Guler Elektronik. Belma Sezgin supportteam@chemras.com

Disclaimer

This Safety Data Sheet complies with the applicable legal regulations at the time it was prepared or revised. It is the downstream user's own responsibility to comply with and implement the information in this document and to take the necessary safety measures.