

PLASTIC

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

1.1 - Product identifier

Trade name/designation PLASTIC

Chemical name

Product-type Mixture

Product code 770.400

UFI: 7G10-S0H2-S00U-255A

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

Relevant identified uses

- Paints/coatings – Protective and functional
- Aerosols

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH

Wolfener Str. 32-34

D-12681 Berlin Germany

Telephone : +49 (0)30 / 36 46 40 36

gunnar.kleinmann@ecsag.com

Distributor

ECS AG

Talstrasse 35-37

8808 Pfaeffikon

Switzerland

gunnar.kleinmann@ecsag.com

+41 (0)44 / 787 53 53

1.4 - Emergency telephone number

Verwenden Sie Ihre nationale oder lokale Notrufnummer (Deutschland)

Tel. No.: +49(0)30-19240.

Schweizerisches Toxikologisches Informationszentrum (Schweiz)/ Centro svizzero di informazione tossicologica (Svizzera)/ Centre Suisse d'Information Toxicologique (Suisse)

Tel. No.: +41 44 251 51 51

Tox Info Suisse Notrufnummer: 145 (24 Stunden)/ Numero di emergenza Tox Info Suisse: 145 (24 ore)/ Tox Info

Suisse Numéro d'urgence: 145 (24h/24)

Giftnotrufzentrale (Österreich)

Tel. No.: +43 1 406 4343

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Aerosol 1	Aerosol - Category 1
Eye Irrit. 2	Eye irritation - Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)

2.2 - Label elements

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

Contains: n-butyl acetate | acetone, propan-2-one, propanone | 1-methoxy-2-propanol, monopropylene glycol methyl ether

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Signal word : Danger

Hazard pictograms



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of container/contents to an appropriate recycling or disposal facility in accordance with international/local/national/regional regulation.

EUH-phrases

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Other hazards which do not result in classification - In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
n-butyl acetate	CAS No. : 123-86-4 Index No. : 607-025-00-1 EC No. : 204-658-1	>= 35 - < 40	Flam. Liq. 3 - H226 STOT SE 3 - H336	Not applicable
butane INCI: BUTANE	CAS No. : 106-97-8 Index No. : 601-004-00-0 EC No. : 203-448-7	>= 20 - < 25	Flam. Gas 1 - H220 Press. Gas	Not applicable
propane INCI: PROPANE	CAS No. : 74-98-6 Index No. : 601-003-00-5 EC No. : 200-827-9	>= 10 - < 12.5	Flam. Gas 1 - H220 Press. Gas	Not applicable

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Chemical name	No.	%	Class(es)	Specific concentration limit
acetone, propan-2-one, propanone	CAS No. : 67-64-1 Index No. : 606-001-00-8 EC No. : 200-662-2	>= 5 - < 10	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 - H336	Not applicable
1-methoxy-2-propanol, monopropylene glycol methyl ether INCI: METHOXYISOPROPA NOL	CAS No. : 107-98-2 Index No. : 603-064-00-3 EC No. : 203-539-1	>= 5 - < 10	Flam. Liq. 3 - H226 STOT SE 3 - H336	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

<u>Following inhalation</u>	- Provide fresh air. - If breathing is irregular or stopped, administer artificial respiration. - When in doubt or if symptoms are observed, get medical advice.
<u>Following skin contact</u>	- After contact with skin, wash immediately with plenty of water and soap. - Remove contaminated, saturated clothing immediately. - In case of skin reactions, consult a physician.
<u>After eye contact</u>	- Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	- Do NOT induce vomiting. - Rinse mouth thoroughly with water. - Observe risk of aspiration if vomiting occurs. - When in doubt or if symptoms are observed, get medical advice.

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

<u>Symptoms and effects - Following inhalation</u>	- Effects Impaired consciousness - Effects Nausea - Effects Dizziness - The following symptoms may occur: Headache - Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
<u>Symptoms and effects - Following skin contact</u>	- No information available. - Repeated exposure may cause skin dryness or cracking.
<u>Symptoms and effects - After eye contact</u>	- Causes serious eye irritation.
<u>Symptoms and effects - After ingestion</u>	- No information available.

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

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5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- Do not breathe smoke.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Extremely flammable aerosol. Pressurized container: May burst if heated.
- Vapours can form explosive mixtures with air.

Hazardous decomposition products

- No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Wear a self-contained breathing apparatus and chemical protective clothing.
- Suppress gases/vapours/mists with water spray jet.
- Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin, eyes and clothes.
- Remove all sources of ignition.
- Remove persons to safety.
- Use personal protection equipment.
- Ventilate affected area.

For emergency responders

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Do not allow uncontrolled discharge of product into the environment.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

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Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

- Recommendation
- Do not breathe gas/fumes/vapour/spray.
 - Do not pierce or burn, even after use.
 - If handled uncovered, arrangements with local exhaust ventilation have to be used.
 - Use only outdoors or in a well-ventilated area.
 - Do not spray on naked flames or any incandescent material.
 - Keep away from sources of ignition - No smoking.
 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 - Take precautionary measures against static discharges.
 - Vapours can form explosive mixtures with air.
 - Heating causes rise in pressure with risk of bursting.

- Advices on general occupational hygiene
- Avoid contact with skin, eyes and clothes.
 - Wash hands and face before breaks and after work and take a shower if necessary.
 - Draw up and observe skin protection programme.
 - Remove contaminated, saturated clothing immediately.
 - When using do not eat, drink, smoke, sniff.

7.2 - Conditions for safe storage, including any incompatibilities

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep locked up.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Store in a place accessible by authorized persons only.
- Keep container tightly closed in a cool, well-ventilated place.
- Do not store together with: Oxidising agent
- Pyrophoric or self-heating substances

7.3 - Specific end use(s)

- Paints/coatings – Protective and functional

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

butane (106-97-8)	
IOELV TWA mg/m ³ (UE)	1450 mg/m ³
IOELV TWA ppm (UE)	600 ppm

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n-butyl acetate (123-86-4)

IOELV TWA mg/m ³ (UE)	241 mg/m ³
IOELV TWA ppm (UE)	50 ppm
IOELV STEL mg/m ³ (UE)	723 mg/m ³
IOELV STEL ppm (UE)	150 ppm

acetone, propan-2-one, propanone (67-64-1)

IOELV TWA mg/m ³ (UE)	1210 mg/m ³
IOELV TWA ppm (UE)	500 ppm

1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)

IOELV TWA mg/m ³ (UE)	375 mg/m ³
IOELV TWA ppm (UE)	100 ppm
IOELV STEL mg/m ³ (UE)	560 mg/m ³
IOELV STEL ppm (UE)	150 ppm

DNEL / PNEC

n-butyl acetate (123-86-4)

Type	Value	User	Effect
DNEL short-term oral (acute)	2 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	2 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	600 mg/m ³	Workers	Systemic
DNEL acute inhalative	600 mg/m ³	Workers	Local
DNEL acute inhalative	300 mg/m ³	Consumers	Systemic
DNEL acute inhalative	300 mg/m ³	Consumers	Local
DNEL long-term inhalative	300 mg/m ³	Workers	Systemic
DNEL long-term inhalative	300 mg/m ³	Workers	Local
DNEL long-term inhalative	35.7 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	35.7 mg/m ³	Consumers	Local
DNEL acute dermal, short-term	11 mg/kg	Workers	Systemic
DNEL acute dermal, short-term	6 mg/kg	Consumers	Systemic
DNEL long-term dermal	11 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	6 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.18 mg/l		
PNEC aquatic, marine water	0.018 mg/l		
PNEC aquatic, intermittent release	0.36 mg/l		
PNEC sediment, freshwater	0.981 mg/kg		
PNEC sediment, marine water	0.098 mg/kg		
PNEC soil	0.09 mg/kg		
PNEC sewage treatment plant (STP)	35.6 mg/l		

propane (74-98-6)

Type	Value	User	Effect
DNEL short-term oral (acute)	0.464 mg/kg	Consumers	Systemic
DNEL long-term inhalative	2.21 mg/m ³	Workers	Systemic
DNEL long-term inhalative	0.265 mg/m ³	Consumers	Systemic

acetone, propan-2-one, propanone (67-64-1)

Type	Value	User	Effect
DNEL long-term oral (repeated)	62 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	2420 mg/m ³	Workers	Systemic
DNEL long-term inhalative	1210 mg/m ³	Workers	Systemic
DNEL long-term inhalative	200 mg/m ³	Consumers	Systemic
DNEL long-term dermal	186 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	62 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	10.6 mg/l		
PNEC aquatic, marine water	1.06 mg/l		

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PNEC aquatic, intermittent release	21 mg/l		
PNEC sediment, freshwater	30.4 mg/kg		
PNEC sediment, marine water	3.04 mg/kg		
PNEC soil	33.3 mg/kg		
PNEC sewage treatment plant (STP)	100 mg/l		

1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	33 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	553.5 mg/m ³	Workers	Systemic
DNEL acute inhalative	553.5 mg/m ³	Workers	Local
DNEL long-term inhalative	369 mg/m ³	Workers	Systemic
DNEL long-term inhalative	43.9 mg/m ³	Consumers	Systemic
DNEL long-term dermal	183 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	78 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	10 mg/l		
PNEC aquatic, marine water	1 mg/l		
PNEC aquatic, intermittent release	100 mg/l		
PNEC sediment, freshwater	52.3 mg/kg		
PNEC sediment, marine water	5.2 mg/kg		
PNEC soil	4.59 mg/kg		
PNEC sewage treatment plant (STP)	100 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- Do not breathe dust/fume/gas/mist/vapours/spray.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

- Wear eye/face protection.
- Suitable eye protection: Goggles.
- DIN EN 166
- Protective gloves according to EN374
- Suitable material: NBR (Nitrile rubber)
- Breakthrough time: > 480 min.
- Thickness of the glove material: >= 0,4 mm
- Use only respiratory protection equipment with CE-symbol including four digit test number.



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- The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Wear anti-static footwear and clothing
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Environmental exposure controls

- Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	<u>Liquid</u>	<u>Appearance</u>	<u>Aerosol</u>
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		< -20 °C	
Flash point		< 0 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		1.2 % Vol.	
Upper explosion limit		13 % Vol.	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		0.738 g/cm ³	
Solubility (Water)		practically insoluble	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		> 200 °C	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available



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9.2 - Other information

VOC content	51.91 %
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Keep cool. Protect from sunlight.
- Vapours can form explosive mixtures with air.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No known hazardous decomposition products.

SECTION 11: Toxicological information

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

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

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

Toxicity : Substances

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butane (106-97-8)	
LC50 inhalation (rat)	> 800000 ppmV
LC50 inhalation vapours (rat)	658 mg/l
n-butyl acetate (123-86-4)	
LD50 oral (rat)	14130 mg/kg
LD50 dermal (rabbit)	14112 mg/kg
LC50 inhalation vapours (rat)	> 6.6 mg/l
propane (74-98-6)	
LC50 inhalation (rat)	> 800000 ppmV
LC50 inhalation vapours (rat)	> 20 mg/l
acetone, propan-2-one, propanone (67-64-1)	
LD50 oral (rat)	5800 mg/kg
LD50 dermal (rabbit)	> 7426 mg/kg
LC50 inhalation vapours (rat)	76 mg/l
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
LD50 oral (rat)	4277 mg/kg
LD50 dermal (rat)	11000 mg/kg
LC50 inhalation vapours (rat)	54.6 mg/l

Skin corrosion/irritation

- Based on available data, the classification criteria are not met.
- Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

- Eye irritation - Category 2 - Causes serious eye irritation.
- Causes serious eye irritation.

Respiratory or skin sensitisation

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

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

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

STOT-single exposure

- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness.
- May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

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

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

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EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Harmful to aquatic life with long lasting effects.

Toxicity : Substances

butane (106-97-8)	
LC50 96 hr fish	24.11 mg/l < V < 147.54 mg/l
ErC50 algae	7.71 mg/l < V < 16.5 mg/l
ErC50 other aquatic plants	7.02 mg/l < V < 69.43 mg/l
n-butyl acetate (123-86-4)	
EC50 48 hr crustacea	44 mg/l
LC50 96 hr fish	18 mg/l
ErC50 algae	648 mg/l
NOEC chronic crustacea	23.2 mg/l
NOEC chronic algae	200 mg/l
propane (74-98-6)	
LC50 96 hr fish	24.11 mg/l < V < 147.54 mg/l
ErC50 algae	7.71 mg/l < V < 16.5 mg/l
ErC50 other aquatic plants	7.02 mg/l < V < 69.43 mg/l
acetone, propan-2-one, propanone (67-64-1)	
EC50 48 hr crustacea	8800 mg/l
LC50 96 hr fish	5540 mg/l < V < 11000 mg/l
ErC50 other aquatic plants	2100 mg/l
NOEC chronic crustacea	2212 mg/l
NOEC chronic algae	430 mg/l < V < 530 mg/l
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
EC50 48 hr crustacea	21100 mg/l < V < 25900 mg/l
LC50 96 hr fish	> 4600 mg/l
ErC50 algae	> 1000 mg/l

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

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n-butyl acetate (123-86-4)	
% of biodegradation in 28 days	83 %
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
% of biodegradation in 28 days	96 %

12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

butane (106-97-8)	
Log KOC	1.09 < V < 2.8
n-butyl acetate (123-86-4)	
Log KOC	200
propane (74-98-6)	
Log KOC	2.36
acetone, propan-2-one, propanone (67-64-1)	
Log KOC	-0.24
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
Bioconcentration factor (BCF)	< 100
Log KOC	0.37

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Completely emptied packages can be recycled. - Dispose of waste according to applicable legislation. - Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. - 16 05 04
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- Gases in pressure containers (including halons) containing hazardous substances
- gases in pressure containers and discarded chemicals
- hazardous waste
- WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 15 01 10 *
- absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
- packaging containing residues of or contaminated by dangerous substances

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

14.1 - UN number or ID number

UN number (ADR) : UN1950
UN number (RID) : UN1950
UN number (ADN) : UN1950
UN number (IMDG) : UN1950
UN number (IATA) : UN1950

14.2 - UN proper shipping name

UN proper shipping name (ADR) : AEROSOLS
UN proper shipping name (RID) : AEROSOLS
UN proper shipping name (ADN) : AEROSOLS
UN proper shipping name (IMDG) : AEROSOLS
UN proper shipping name (IATA) : AEROSOLS, FLAMMABLE

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 2
ADR Classification code: : 5F
Pictograms



Transport hazard class(es) (RID) : 2

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Pictograms



Transport hazard class(es) : 2
(ADN)

Pictograms



Transport hazard class(es) : 2
(IMDG)

Pictograms



Transport hazard class(es) : 2
(IATA)

Pictograms



14.4 - Packing group

Packing group :

Packing group (RID) :

Packing group (ADN) :

Packing group (IMDG) :

Packing group (IATA) :

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user



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ADR

<u>ADR Classification code:</u>	:	5F
<u>ADR Special provisions</u>	:	190+327+344+625
<u>ADR Limited quantity (LQ)</u>	:	1L
<u>ADR Excepted quantities</u>	:	E0
<u>ADR Packing instructions</u>	:	
<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>ADR tank code</u>	:	
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	V14
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	

RID

<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	1L
<u>Excepted quantities</u>	:	E0

ADN

<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	E0

IMDG

<u>Special provisions</u>	:	63 190 277 327 344 381 959
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	E0
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-D, S-U
<u>Stowage and handling</u>	:	Category None SW1 SW22
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

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<u>PCA - Excepted quantities</u>	:	E0
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y203
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	30kg
<u>PCA - Packing Instructions</u>	:	203
<u>PCA - Maximum Net Quantity per Package</u>	:	75kg
<u>CAO - Packing Instructions</u>	:	203
<u>CAO - Maximum Net Quantity per Package</u>	:	150kg
<u>Special Provisions</u>	:	A145 A167 A802
<u>ERG Code</u>	:	

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 51.91 %

- -- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;
- -- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);
- -- COUNCIL DIRECTIVE of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (OJ L 147, 9.6.1975, p. 40)
- -- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;
- -- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);
- -- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).
- Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.
- 850/2004/EC, 79/117/EEC, 689/2008/EC , 2008/47/EC
- P3b Flammable aerosols
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

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15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	26/09/2024		

Abbreviations and acronyms

- ACGIH – Association advancing occupational and environmental health.
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS – Chemical Abstracts Service number.
- CEN – European Committee for Standardisation.
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- IMDG – International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PNEC(s) – Predicted No Effect Concentration(s).
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STOT – Specific Target Organ Toxicity.
- vPvB – Very Persistent and Very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

Aerosol 1	Aerosol - Category 1
Eye Irrit. 2	Eye irritation - Category 2
Flam. Gas 1	Flammable gas. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.



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H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Press. Gas	Gases under pressure
STOT SE 3	STOT-single exposure - Category 3 (H336)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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