

Sprayglue non-permanent

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

1.1 - Product identifier

Trade name/designation Sprayglue non-permanent
Chemical name
Product-type Mixture
Product code 764.400
UFI: G110-8023-800C-SF80

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

Relevant identified uses - Adhesives, sealants

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
Roosstrasse 53
CH-8832 Wollerau
gunnar.kleinmann@ecsag.com
+41 (0)44 / 787 53 56

1.4 - Emergency telephone number

Giftnotrufzentrale (Österreich)
Tel. No.: +43 1 406 4343

Centar za kontrolu trovanja (Hrvatska)
Tel. No.: +385 1 234 8342

Hotline voor gifbestrijding (Denemarken)
Tel. No.: +45 82 12 12 12

Mürgistusteabekeskus (Eesti)
Tel. No.: +372 794 3794 (või 16662 riiklikku)

ORFILA (INERIS) (France)
Tel. No.: +33 (0) 1 45 42 59 59

Vergiftungs-Informationen-Zentrale (Deutschland)
Notfalltelefon: +49 761 19240

Eitrunarmiöstöð (Ísland)
Tel. No.: +354 543 2222

CAV Milano Niguarda Ca' Granda (Italy)
Tel. No.: +39 02 66101029
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA
Tel. No.: +39 06 68593726

Ionad Faisnéise Náisiúnta Nimheanna (Éire)
Tel. No.: +353 (0)1 809 2566 / +353 (0)1 837 9964

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Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)
Tel. No.: +371 670 42473

Valstybinė vaistų kontrolės tarnyba (VVKT), Apsinuodijimų informacijos biuras (VTI) (Lietuva)
Tel. No.: +370 5 236 20 52

Isptar Mater Dei (Malta)
Tel. No.: +356 2545 0000

Nationaal Vergiftigingen Informatie Centrum (NVIC) (Nederland)
Tel. No.: +31 (0) 30 274 8888

Hjelpetelefon for psykisk helse (Norge)
Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal)
Tel. No.: +351 213 303 271

Servicio de Información Toxicológica (España)
Tel. No.: +34 91 562 04 20

Svensk Giftinformationscentral (Sverige)
Tel. No.: +46 08 331231

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)

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

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

2.2 - Label elements

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

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

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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

EUH-phrases : None

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.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
butane INCI: BUTANE	CAS No. : 106-97-8 Index No. : 601-004-00-0 EC No. : 203-448-7	>= 40 - <= 45	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	>= 20 - <= 25	Flam. Gas 1 - H220 Press. Gas	Not applicable
propan-2-ol, isopropyl alcohol, isopropanol	CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7	>= 10 - <= 12.5	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 (H336) - H336	Not applicable
ethanol, ethyl alcohol	CAS No. : 64-17-5 Index No. : 603-002-00-5 EC No. : 200-578-6	>= 10 - <= 12.5	Flam. Liq. 2 - H225	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- No special measures are necessary.
- Provide fresh air.
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact

- Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

After eye contact

- Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

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After ingestion

- Observe risk of aspiration if vomiting occurs.
- Rinse mouth thoroughly with water.
- Do NOT induce vomiting.
- When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Causes eye irritation.

Symptoms and effects - After ingestion - 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

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

- 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.
- Use water spray jet to protect personnel and to cool endangered containers.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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.
- Remove persons to safety.
- Ventilate affected area.

For emergency responders

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

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6.2 - Environmental precautions

- Do not allow uncontrolled discharge of product into the environment.
- Explosion risk.

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.

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.
- Do not spray on naked flames or any incandescent material.
- Heating causes rise in pressure with risk of bursting.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- 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.
- Use only in well-ventilated areas.
- Vapours can form explosive mixtures with air.

Advices on general occupational hygiene

- Draw up and observe skin protection programme.
- Remove contaminated, saturated clothing immediately.
- Wash hands and face before breaks and after work and take a shower if necessary.
- 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 container tightly closed in a cool, well-ventilated place.
- Keep locked up.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Store in a place accessible by authorized persons only.
- Do not store together with: Oxidising agent
- Pyrophoric or self-heating substances

7.3 - Specific end use(s)

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- Adhesives, sealants

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
TWA EH40 ppm (UK)	600 ppm
TWA EH40 mg/m ³ (UK)	1450 mg/m ³
STEL EH40 ppm (UK)	750 ppm
STEL EH40 mg/m ³ (UK)	1810 mg/m ³
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
TWA EH40 ppm (UK)	400 ppm
TWA EH40 mg/m ³ (UK)	999 mg/m ³
STEL EH40 ppm (UK)	500 ppm
STEL EH40 mg/m ³ (UK)	1250 mg/m ³
ethanol, ethyl alcohol (64-17-5)	
TWA EH40 ppm (UK)	1000 ppm
TWA EH40 mg/m ³ (UK)	1920 mg/m ³

DNEL / PNEC

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	26 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	500 mg/m ³	Workers	Systemic
DNEL long-term inhalative	89 mg/m ³	Consumers	Systemic
DNEL long-term dermal	319 mg/kg bw/day	Consumers	Systemic
DNEL long-term dermal	888 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	140.9 mg/l		
PNEC aquatic, marine water	140.9 mg/l		
PNEC aquatic, intermittent release	140.9 mg/l		
PNEC sediment, freshwater	552 mg/kg		
PNEC sediment, marine water	552 mg/kg		
PNEC Secondary Poisoning	160 mg/kg		
PNEC sewage treatment plant (STP)	2251 mg/l		
ethanol, ethyl alcohol (64-17-5)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	87 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	1900 mg/m ³	Workers	Local
DNEL acute inhalative	950 mg/m ³	Consumers	Local
DNEL long-term inhalative	114 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	950 mg/m ³	Workers	Systemic
DNEL long-term dermal	343 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	206 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	960 mg/l		
PNEC aquatic, marine water	790 mg/l		
PNEC aquatic, intermittent release	2.75 mg/l		
PNEC sediment, freshwater	3.6 mg/kg		
PNEC sediment, marine water	2.9 mg/kg		

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PNEC Secondary Poisoning	380 mg/kg		
PNEC sewage treatment plant (STP)	580 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- 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

- Eye glasses with side protection
- DIN EN 166
- Wear anti-static footwear and clothing
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
- 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.
- EN ISO 374
- Suitable material: FKM (fluoro rubber)
- Breakthrough time: > 480 min.
- Thickness of the glove material: 0,7 mm
- 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.
- 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

- No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Aerosol
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold	No data available		
pH	No data available		
Melting point	No data available		
Freezing point	> -20 °C		
Boiling point	No data available		

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Flash point	> -20 °C
Evaporation rate	No data available
flammability	No data available
Lower explosion limit	1.5 % Vol.
Upper explosion limit	15 % Vol.
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	0.617 g/cm ³
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	> 350 °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

9.2 - Other information

VOC content	87.398 %
Minimum ignition energy	No data available
Conductivity	No data available
VOC Composite Partial Pressure (Calculated @ 20°C/68°F)	No data available
C.A.R.B. V.O.C.	No data available
% Photo Chemically Reactive	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

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

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

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

butane (106-97-8)	
LC50 inhalation (rat)	> 800000 ppmV
LC50 inhalation vapours (rat)	658 mg/l
propane (74-98-6)	
LC50 inhalation (rat)	> 800000 ppmV
LC50 inhalation vapours (rat)	20 mg/l
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LD50 oral (rat)	5840 mg/kg
LD50 dermal (rabbit)	13900 mg/kg
LC50 inhalation vapours (rat)	5000 mg/l
ethanol, ethyl alcohol (64-17-5)	
LD50 oral (rat)	10470 mg/kg
LD50 dermal (rat)	17100 mg/kg
LC50 inhalation vapours (rat)	124.7 mg/l

Skin corrosion/irritation - Not classified

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

Serious eye damage/eye irritation - Eye irritation - Category 2 - Causes serious eye irritation

- Irritating to eyes.

Respiratory or skin sensitisation - Not classified

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

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<u>Germ cell mutagenicity</u>	- Not classified - Based on available data, the classification criteria are not met.
<u>Carcinogenicity</u>	- Not classified - Based on available data, the classification criteria are not met.
<u>Reproductive toxicity</u>	- Not classified - Based on available data, the classification criteria are not met.
<u>STOT-single exposure</u>	- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness - May cause drowsiness or dizziness.
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

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

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

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
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
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
EC50 48 hr crustacea	1000 mg/l
LC50 96 hr fish	9640 mg/l
ErC50 algae	> 100 mg/l

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NOEC chronic algae	1800 mg/l
ethanol, ethyl alcohol (64-17-5)	
LC50 96 hr fish	11200 mg/l
ErC50 algae	275 mg/l
ErC50 other aquatic plants	5012 mg/l
NOEC chronic fish	250 mg/l
NOEC chronic algae	11.5 mg/l
NOEC chronic other aquatic plants	9.6 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

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.

12.3 - Bioaccumulative potential

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

- No indication of bioaccumulation potential.

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

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods

- Dispose of waste according to applicable legislation.
- 16 05 04
- WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- gases in pressure containers and discarded chemicals
- Gases in pressure containers (including halons) containing hazardous substances
- hazardous waste

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- Completely emptied packages can be recycled.
- Handle contaminated packages in the same way as the substance itself.
- Dispose of empty or partially emptied packaging/container/can after appropriate use of the product to municipal waste.

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

Pictograms



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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

ADR

ADR Classification code : 5F
ADR Special provisions : 190+327+344+625
ADR Limited quantity (LQ) : 1L
ADR Excepted quantities : E0
ADR Packing instructions : P207 LP200
ADR Special packing provisions : PP87 RR6 L2
ADR Mixed packing provisions : MP9
Instructions for portable tanks and bulk containers :

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<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>	:	CV9 CV12
<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>	:	
<u>RID</u>		
<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	1L
<u>Excepted quantities</u>	:	E0
<u>ADN</u>		
<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	1L
<u>Excepted quantities</u>	:	E0
<u>IMDG</u>		
<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>	:	P207 LP200
<u>Special packing provisions</u>	:	PP87 L2
<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>	:	SG69
<u>Properties and observations</u>	:	
<u>IATA</u>		
<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

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ERG Code :

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 87.398 %

- – COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

- – 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)

- – 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).

- 850/2004/EC, 79/117/EEC, 689/2008/EC , 2008/47/EC

- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

- 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).

- P3a Flammable aerosols

- Water hazard class (WGK 1)

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	24/05/2023		

Abbreviations and acronyms - ACGIH – Association advancing occupational and environmental health.

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- 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
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Gas 1	Flammable gas. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
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 (H336)	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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