

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 14/02/2025 Revision date: 28/08/2024 Supersedes version of: 28/06/2023 Version: 2.1

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

1.1. Product identifier

Product name : FR-90

UFI : S1SX-K8QX-U00R-S1J0

Product code : BDS002546AE Vaporizer : Aerosol

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

Relevant identified uses

: Professional use Main use category Use of the substance/mixture lubricants

1.3. Details of the supplier of the safety data sheet

Supplier

CRC Industries Europe UK Limited

Wylds Road

Castlefield Industrial Estate TA6 4DD Bridgwater Somerset

United Kingdom

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1.4. Emergency telephone number

Emergency number +44 1278 727200

Office hours: 9-17h CET

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229 Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity - Single exposure, Category 3, H336

H304 Aspiration hazard, Category 1 Hazardous to the aquatic environment - Chronic Hazard, H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)





GHS02

GHS07

GHS09

Signal word (CLP)

Contains

: Danger

: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Hazard statements (CLP)

: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated.

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Precautionary statements (CLP)

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

: P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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

P251 - Do not pierce or burn, even after use. P261 - Avoid breathing vapours/spray.

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

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}$ C. P501 - Dispose of contents/container to a hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944- 21	25 – 50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
butane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691- 32	25 – 50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
isobutane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395- 27	10 – 25	Flam. Gas 1, H220 Press. Gas (Liq.), H280
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC-No.: 921-024-6 REACH-no: 01-2119475514- 35	10 – 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC-No.: 920-107-4 REACH-no: 01-2119453414- 43	10 – 15	Asp. Tox. 1, H304 EUH066
Dipropylene glycol methyl ether substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2	1 – 5	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulfonic acids, petroleum, Sodium salts	CAS-No.: 68608-26-4 EC-No.: 271-781-5 REACH-no: 01-2119527859- 22	< 1	Eye Irrit. 2, H319
Hydrocarbon waxes (petroleum), oxidized	CAS-No.: 64743-00-6 EC-No.: 265-205-1 REACH-no: 01-2119972699- 13	< 1	Eye Irrit. 2, H319

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop,

get medical attention.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention. Seek medical attention if irritation develops.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Seek medical attention if irritation develops.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately. Rinse mouth. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after ingestion : Risk of lung oedema.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard

firefighting procedures and consider the hazards of other involved materials.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. For large spills, confine the spill in a dike and charge it

with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to

remove residual contamination.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For disposal of contaminated materials refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid prolonged exposure. Handle in accordance with good

industrial hygiene and safety procedures.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked

up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated

place. Keep cool. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

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propane (74-98-6)				
Belgium - Occupational Exposure Limits				
Local name	Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) # Alifatische koolwaterstoffen in gas-vorm: Alkanen (C1-C3)			
OEL TWA	1000 ppm			
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023			
isobutane (75-28-5)				
Belgium - Occupational Exposure Limits				
Local name	Butane, tous isomères: iso-butane # Butaan, alle isomeren: iso-butaan			
OEL STEL	2370 mg/m³			
	980 ppm			
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023			
butane (106-97-8)				
Belgium - Occupational Exposure Limits				
Local name	Butane, tous isomères: n-butane # Butaan, alle isomeren: n-butaan			
OEL STEL	2370 mg/m³			
	980 ppm			
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023			
Dipropylene glycol methyl ether (34590-94-8)				
EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	(2-Methoxymethylethoxy)-propanol			
IOEL TWA	308 mg/m³			
	50 ppm			
Remark	Skin			
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC			
Belgium - Occupational Exposure Limits				
Local name	Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether			
OEL TWA	308 mg/m³			
	50 ppm			
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.			
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023			

DNEL and PNEC

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	773 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2035 mg/m³	

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
DNEL/DMEL (General population)		
Long-term - systemic effects,oral 699 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	608 mg/m³	
Long-term - systemic effects, dermal	699 mg/kg bodyweight/day	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protection equipment

Personal protective equipment symbol(s):





Eye and face protection

Eye protection:

Use eye protection according to EN 166. Safety glasses with side shields.

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended.

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. Filter type: A

Thermal hazards

Thermal hazard protection:

Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Amber.

Appearance : Propane/butane propelled liquid.

Odour : Characteristic.
Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : 65 – 270 °C

Flammability : Extremely flammable aerosol.

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Explosive properties : Pressurised container: May burst if heated.

Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : -45 °C (closed cup)
Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not applicable
Viscosity kinomatic : < 20.5 mm²/s at 40.°

Viscosity, kinematic < 20,5 mm²/s at 40 °C Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not applicable Vapour pressure : Not available Vapour pressure at 50°C Not available Density : 0,74 g/cm3 at 20 °C : 0,74 at 20 °C Relative density Relative vapour density at 20°C Not available Particle characteristics : Not applicable

9.2. Other information

Information with regard to physical hazard classes

% of flammable ingredients : 75 - 100 %

Other safety characteristics

VOC content : 563 g/l

Additional information : For aerosols data for the product without propellant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
LD50 oral rat	5841 mg/kg
LD50 dermal rat	2800 – 3100 mg/kg bodyweight

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Hydrocarbons, C6-C7, n-alkanes, iso	alkanes, cyclics, <5% n-hexane			
LC50 Inhalation - Rat	> 25,2 mg/l/4h			
Sulfonic acids, petroleum, Sodium sa	alts (68608-26-4)			
LD50 oral rat	> 5 g/kg			
LD50 dermal rabbit	> 5000 mg/kg bodyweight			
Dipropylene glycol methyl ether (345				
LD50 oral rat	> 5000 mg/kg bodyweight			
LD50 dermal rabbit	9510 mg/kg bodyweight			
Hydrocarbon waxes (petroleum), oxi	dized (64743-00-6)			
LD50 oral rat	> 5000 mg/kg bodyweight			
Hydrocarbons, C12-C15, n-alkanes, i	soalkanes, cyclics, < 2% aromatics			
LD50 oral rat	> 15000 mg/kg bodyweight			
LD50 dermal rabbit	≥ 3160 mg/kg bodyweight			
LC50 Inhalation - Rat	≥ 6,1 mg/l/4h			
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable			
Sulfonic acids, petroleum, Sodium sa	alts (68608-26-4)			
pH	10			
Serious eye damage/irritation	 Not classified (Based on available data, the classification criteria are not met) pH: Not applicable 			
Sulfonic acids, petroleum, Sodium sa	alts (68608-26-4)			
pH	10			
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)			
Germ cell mutagenicity Carcinogenicity	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) 			
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)			
STOT-single exposure	: May cause drowsiness or dizziness.			
Hydrocarbons, C6-C7, n-alkanes, iso	alkanes, cyclics, <5% n-hexane			
STOT-single exposure	May cause drowsiness or dizziness.			
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)			
Sulfonic acids, petroleum, Sodium sa	alts (68608-26-4)			
NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight			
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight			
Hydrocarbon waxes (petroleum), oxi	dized (64743-00-6)			
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight			
Aspiration hazard	: May be fatal if swallowed and enters airways.			
FR-90				
Vaporizer	Aerosol			
Viscosity, kinematic	< 20,5 mm²/s at 40 °C			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
Viscosity, kinematic	0,7 mm²/s at 20 °C			

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Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Viscosity, kinematic	3,56 mm²/s

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

,			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
LC50 - Fish [1]	11,4 mg/l		
EC50 - Crustacea [1]	3 mg/l		
EC50 72h - Algae [1]	10 mg/l		
LOEC (chronic)	0,32 mg/l		
NOEC (chronic)	0,17 mg/l		
NOEC chronic fish	2,04 mg/l		
NOEC chronic crustacea	1 mg/l		
Sulfonic acids, petroleum, Sodium salts (686	08-26-4)		
LC50 - Fish [1]	> 10000 mg/l		
EC50 - Crustacea [1]	> 1000 mg/l		
EC50 72h - Algae [1]	> 1000 mg/l		
EC50 96h - Algae [1]	> 1000 mg/l		
Dipropylene glycol methyl ether (34590-94-8)			
LC50 - Fish [1]	> 10000 mg/l		
EC50 - Crustacea [1]	1919 mg/l Daphnia magna (Water flea)		
EC50 96h - Algae [1]	> 969 mg/l		
NOEC (chronic)	≥ 0,5 mg/l Daphnia magna (22 d)		
NOEC chronic algae	> 969 mg/l		
Hydrocarbon waxes (petroleum), oxidized (64743-00-6)			
LC50 - Fish [1]	> 100 mg/l		
EC50 72h - Algae [1]	> 100 mg/l		

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12.2. Persistence and degradability

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Persistence and degradability Not established. No data is available on the degradability of this product.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Kow) Not applicable

Sulfonic acids, petroleum, Sodium salts (68608-26-4)

Partition coefficient n-octanol/water (Log Pow) 15,87

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

FR-90

Results of PBT assessment Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

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Other information	No other effects known
Global warming potential (GWP)	2.05 (Fluorinated greenhouse gases - (EC) No 2024/573)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

European List of Waste (LoW, EC 2000/532)

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS

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ADR	IMDG	IATA	ADN	RID		
Transport document description						
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard o	class(es)					
2.1	2.1	2.1	2.1	2.1		
2	2	2	2	2		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
No supplementary information available						

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP200 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9

Transport category (ADR) : 2

Special provisions for carriage - Packages (ADR) : V14

Special provisions for carriage - Loading, unloading : CV9, CV12

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG): SP277Excepted quantities (IMDG): E0Packing instructions (IMDG): P207, LP200Special packing provisions (IMDG): PP87, L2

Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203

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CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID): 1LExcepted quantities (RID): E0Packing instructions (RID): P207, LP200Special packing provisions (RID): PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

Special provisions for carriage - Loading, unloading : CW9, CW12

and handling (RID)

Colis express (express parcels) (RID) : CE2 Hazard identification number (RID) : 23

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-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 563 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
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	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	

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Abbreviations and acronyms:		
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH-statements:		
Aerosol 1	Aerosol, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Gas 1	Flammable gases, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H280	Contains gas under pressure; may explode if heated.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

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