

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**

Use of the substance/mixture : Lubricants

1.3. Details of the supplier of the safety data sheet**Supplier**

CRC Industries UK Limited
Wylde Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
T +44 1278 727200, F +44 1278 425644
hse.uk@crcind.com, www.crcind.com

Only Representative

CRC Industries Europe B.V.
Touwslagerstraat 1
9240 Zele
Belgium
T +32(0)52/45.60.11, F +32(0)52/45.00.34
hse@crcind.com, www.crcind.com

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, Narcosis | H336 |
| Aspiration hazard, Category 1 | H304 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | 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) :

Danger

Contains :

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) | : 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. P280 - Wear protective gloves/eye protection. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
|--------------------------------|--|

Derogation from labelling requirements according to CLP Article 23(c); Annex I Part 1 Section 1.3.3

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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 REACH-no: 01-2119450011-60 | 1 – 5 | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (BE) | CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299-27 | 1 – 5 | Not classified |
| 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. |
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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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.
Additional Regulatory 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/m ³ 980 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/m ³ 980 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/m ³ 50 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Belgium - Occupational Exposure Limits | |
| Local name | Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether |
| OEL TWA | 308 mg/m ³ 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 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| OEL STEL | 5 mg/m ³ |

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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

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. Antistatic clothing including shoes are recommended

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. Layer thickness : > 0,10 mm.

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.

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| | |
|---|---|
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : 65 – 270 °C |
| Flammability | : Extremely flammable aerosol. |
| 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, kinematic | : < 20,5 mm ² /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/cm ³ at 20 °C |
| Relative density | : 0,74 at 20 °C |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Additional Regulatory 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)

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| | |
|---|---|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | |
| LD50 oral rat | 5841 mg/kg |
| LD50 dermal rat | 2800 – 3100 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 25,2 mg/l/4h |
| Sulfonic acids, petroleum, Sodium salts (68608-26-4) | |
| LD50 oral rat | > 5 g/kg |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight |
| Dipropylene glycol methyl ether (34590-94-8) | |
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | 9510 mg/kg bodyweight |
| Hydrocarbon waxes (petroleum), oxidized (64743-00-6) | |
| LD50 oral rat | > 5000 mg/kg bodyweight |
| Hydrocarbons, C12-C15, n-alkanes, isoalkanes, 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 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. pH: Not applicable |
| propane (74-98-6) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| isobutane (75-28-5) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| butane (106-97-8) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | |
| Skin corrosion/irritation | Causes skin irritation. |
| Sulfonic acids, petroleum, Sodium salts (68608-26-4) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| pH | 10 |
| Dipropylene glycol methyl ether (34590-94-8) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Hydrocarbon waxes (petroleum), oxidized (64743-00-6) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |

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| | |
|---|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Not applicable |
| propane (74-98-6) | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| isobutane (75-28-5) | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| butane (106-97-8) | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Sulfonic acids, petroleum, Sodium salts (68608-26-4) | |
| Serious eye damage/irritation | Causes serious eye irritation. |
| pH | 10 |
| Dipropylene glycol methyl ether (34590-94-8) | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Hydrocarbon waxes (petroleum), oxidized (64743-00-6) | |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : 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, isoalkanes, 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 salts (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), oxidized (64743-00-6) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

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| Vaporizer | Aerosol |
| Viscosity, kinematic | < 20,5 mm ² /s at 40 °C |

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 (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

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 (68608-26-4)

| | |
|----------------------|--------------|
| 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 |

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|-----------------|-------------|
| LC50 - Fish [1] | > 5000 mg/l |
|-----------------|-------------|

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|----------------------|-------------|
| EC50 - Crustacea [1] | > 1000 mg/l |
| EC50 96h - Algae [1] | > 1000 mg/l |

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 |
|---|-------|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|---|---------|
| Partition coefficient n-octanol/water (Log Pow) | 3,9 – 6 |
|---|---------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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| | |
|---------------------------|--|
| Results of PBT assessment | Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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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| | |
|-----------------------------------|--|
| Additional Regulatory 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 : Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW, EC 2000/532) : 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

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| 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 |
| Transport document description | | | | |
| UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY 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 class(es) | | | | |
| 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
|  |  |  |  |  |
| 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 and handling (ADR) | : CV9, CV12 |
| 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) | : SP277 |
| Excepted quantities (IMDG) | : E0 |
| Packing instructions (IMDG) | : P207, LP200 |
| Special packing provisions (IMDG) | : PP87, L2 |
| Stowage category (IMDG) | : None |
| Stowage and handling (IMDG) | : SW1, SW22 |
| Segregation (IMDG) | : SG69 |

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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 |
| 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) | : 1L |
| Excepted quantities (RID) | : E0 |
| Packing instructions (RID) | : P207, LP200 |
| Special 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 and handling (RID) | : CW9, CW12 |
| 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)

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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

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : P3a: FLAMMABLE AEROSOLS
'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1
E2: Hazardous to the Aquatic Environment in Category Chronic 2

Explosives Precursors Regulation (EU 2019/1148)

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

Drug Precursors Regulation (EC 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

| Indication of changes | | |
|-----------------------|--|------------------------------|
| Section | Changed item | Comments |
| 2.2 | Precautionary statements (CLP) | Modified |
| 3 | Composition/information on ingredients | Modified |
| 8.2 | Skin and body protection | Modified |
| 8.2 | Hand protection | Modified Thickness |
| 15 | Seveso Additional information | Added |
| 16 | Data sources | Added |

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 |

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

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

| 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. |

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Full text of H- and EUH-statements:

| | |
|--------|---|
| 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. |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|-----------|-----------------------|
| Aerosol 1 | H222;H229 | On basis of test data |
| Skin Irrit. 2 | H315 | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

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