

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 8-10-2018 Revision date: 14-9-2021 Supersedes version of: 28-7-2021 Version: 1.7

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

1.1. Product identifier

Product form : Mixture

Trade name Putoline Tech Chain UFI Y850-F0HS-Y002-1NUW

Product code PO 10 00 Vaporizer aerosol Product group Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Industrial use, Professional use, Consumer use Main use category

Use of the substance/mixture Lubricating agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Putoline Oil Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@putoline.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

H222;H229 Aerosol, Category 1 Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336 Aspiration hazard, Category 1 H304 H411 Hazardous to the aquatic environment — Chronic Hazard, Category 2

Full text of H-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.

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2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

GHS07

GHS09

Signal word (CLP)

: Danger

Contains

: Pentane; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics;

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

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated. H315 - Causes skin irritation.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: 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.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to hazardous or special waste collection point, in

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

EUH-statements

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| Pentane substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | (CAS-No.) 109-66-0 (EC-No.) 203-692-4 (EC Index-No.) 601-006-00-1 (REACH-no) 01-2119459286-30 | 25 – 50 | Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Butane substance with national workplace exposure limit(s) (GB, IE) (Note K) | (CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32 | 10 – 25 | Flam. Gas 1A, H220 Press. Gas (Comp.), H280 |
| Propane substance with a Community workplace exposure limit (Note U) | (CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21 | 10 – 25 | Flam. Gas 1A, H220 Press. Gas (Comp.), H280 |

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| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | (CAS-No.) 92128-66-0 (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 |
|---|---|----------|--|
| isobutane substance with national workplace exposure limit(s) (IE) (Note K) | (CAS-No.) 75-28-5 (EC-No.) 200-857-2 (REACH-no) 01-2119485395-27 | 2,5 – 10 | Flam. Gas 1A, H220 Press. Gas (Comp.), H280 |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | (CAS-No.) 64742-48-9 (EC-No.) 919-857-5 (REACH-no) 01-2119463258-33 | 2,5 – 10 | Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 |
| Titanium dioxide substance with national workplace exposure limit(s) (GB, IE) | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-002 (REACH-no) 01-2119489379-17 | 1 – 2,5 | Carc. 2, H351 |

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 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.

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

medical advice/attention.

First-aid measures after eye contact Rinse eyes with water as a precaution.

Do not induce vomiting. Call a physician immediately. First-aid measures after ingestion

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Unsuitable extinguishing media : Do not use water jet. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Extremely flammable aerosol. Explosion hazard : Pressurised container: May burst if heated.

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Hazardous decomposition products in case of fire

: Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

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

6.1.1. For non-emergency personnel

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.

6.1.2. 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".

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

For containment

: Collect spillage.

Methods for cleaning up Other information

: Mechanically recover the product.: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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. 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.

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. Keep cool.

Storage temperature : $< 40 \, ^{\circ}\text{C}$

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Titanium dioxide (13463-67-7) | | |
|---|--|--|
| Ireland - Occupational Exposure Limits | | |
| Local name | Titanium dioxide | |
| OEL TWA [1] | 10 mg/m³ total inhalable dust 4 mg/m³ respirable dust | |
| Regulatory reference | Chemical Agents Code of Practice 2021 | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Titanium dioxide | |
| WEL TWA (OEL TWA) [1] | 4 mg/m³ respirable 10 mg/m³ total inhalable | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| Pentane (109-66-0) | | |
|--|---------------------------------------|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| Local name | Pentane | |
| IOEL TWA | 3000 mg/m³ | |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Pentane | |
| WEL TWA (OEL TWA) [1] | 1800 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 600 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| Butane (106-97-8) | Butane (106-97-8) | | |
|---|--|--|--|
| Ireland - Occupational Exposure Limits | | | |
| Local name | Butane, all isomers: Butane | | |
| OEL STEL [ppm] | 1000 ppm | | |
| Regulatory reference | Chemical Agents Code of Practice 2021 | | |
| United Kingdom - Occupational Exposure Limits | | | |
| Local name | Butane | | |
| WEL TWA (OEL TWA) [1] | 1450 mg/m³ | | |
| WEL TWA (OEL TWA) [2] | 600 ppm | | |
| WEL STEL (OEL STEL) | 1810 mg/m³ | | |
| WEL STEL (OEL STEL) [ppm] | 750 ppm | | |
| Remark (WEL) | Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene) | | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | | |

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| Propane (74-98-6) | | |
|--|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| IOEL TWA [ppm] 1000 ppm | | |
| Ireland - Occupational Exposure Limits | | |
| Local name | Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane | |
| Notes (IE) | Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants) | |
| Regulatory reference | Chemical Agents Code of Practice 2021 | |

| isobutane (75-28-5) | | |
|--|---------------------------------------|--|
| Ireland - Occupational Exposure Limits | | |
| Local name | Butane, all isomers: Isobutane | |
| OEL STEL [ppm] | 1000 ppm | |
| Regulatory reference | Chemical Agents Code of Practice 2021 | |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

| Eye protection: | | | | |
|-----------------|----------------------|-----------------|----------|--|
| Safety glasses | | | | |
| Туре | Field of application | Characteristics | Standard | |
| Safety glasses | Droplet | clear | EN 166 | |

8.2.2.2. Skin protection

| Skin and body protection: | |
|-----------------------------------|--|
| Wear suitable protective clothing | |

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| Hand protection: | | | | | |
|---------------------------------------|----------------------|-------------------|----------------|-------------|------------|
| Protective gloves | | | | | |
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves, Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35 | | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid Physical state Appearance : Aerosol. Colour white. Odour characteristic. Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) No data available Melting point : Not applicable Freezing point : No data available

-44 °C Boiling point -97 °C Flash point : > 200 °C Critical temperature Auto-ignition temperature : No data available : No data available Decomposition temperature

Flammability (solid, gas) : Extremely flammable aerosol.

: 8300 hPa (20°C) Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available : 0,654 g/cm3 at 20 °C Density

: Water: Insoluble / Slightly miscible Solubility

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : < 20,5 mm²/s (40 °C) - ASTM D7279

Viscosity, dynamic : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available Lower explosive limit (LEL) : 0,7 vol % Upper explosive limit (UEL) : 10,9 vol %

9.2. Other information

VOC content : 550,7 g/l

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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. Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

| Titanium dioxide (13463-67-7) | | |
|-----------------------------------|--|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) | |
| LD50 dermal | > 10000 mg/kg bodyweight | |
| LC50 Inhalation - Rat (Dust/Mist) | > 6820 mg/l | |

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9) | |
|--|--------------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401 method) |
| LD50 dermal rabbit | > 5000 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat | > 5000 mg/m³ (OECD 403 method) |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0) | |
|--|------------|
| LD50 oral rat | 5840 mg/kg |
| LD50 dermal rat | 2920 mg/kg |
| LC50 Inhalation - Rat | 25 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified.

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Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

| Pentane | (109-66-0) |
|----------------|------------|
|----------------|------------|

STOT-single exposure May cause drowsiness or dizziness.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)

STOT-single exposure May cause drowsiness or dizziness.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

| Putoline Tech Chain | |
|----------------------|-----------------------------------|
| Vaporizer | aerosol |
| Viscosity, kinematic | < 20,5 mm²/s (40 °C) - ASTM D7279 |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

: Not classified Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

| Titanium dioxide (13463-67-7) | |
|------------------------------------|--|
| LC50 - Fish [1] | > 10000 mg/l |
| EC50 - Other aquatic organisms [1] | > 10000 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 10000 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| Pentane (109-66-0) | |
|----------------------|---------------|
| LC50 - Fish [1] | 4,26 mg/l 96h |
| EC50 - Crustacea [1] | 2,7 mg/l 48h |

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9) | |
|--|--|
| LC50 - Fish [1] | > 1000 mg/l (Oncorhynchus mykiss, 96h) [OCDE 203] |
| EC50 - Crustacea [1] | > 1000 mg/l (Daphnia magna, 48h) [OCDE 202] |
| ErC50 algae | > 1000 mg/l (Pseudokirchnerella subcapitata, 72h) [OCDE 201] |

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| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0) | |
|--|--|
| LC50 - Fish [1] | 11,4 mg/l (Oncorhynchus mykiss, 96h) [OCDE 203] |
| LC50 - Fish [2] | 2,04 mg/l (Oncorhynchus mykiss, 96h) |
| EC50 - Crustacea [1] | 3 mg/l (Daphnia magna, 48h) [OCDE 202] |
| EC50 - Crustacea [2] | 1 mg/l (Daphnia magna, 48h) [OCDE 211] |
| ErC50 algae | 10 mg/l (Pseudokirchnerella subcapitata, 72h) [OCDE 201] |
| ErC50 other aquatic plants | 3 mg/l (Algae, Pseudokirchnerella subcapitata, 72h) |

12.2. Persistence and degradability

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9) | |
|--|--|
| Persistence and degradability | Readily biodegradable, according to appropriate OECD test. |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0) | |
|--|--|
| Persistence and degradability | Readily biodegradable, according to appropriate OECD test. |

12.3. Bioaccumulative potential

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9) | |
|--|-------------------------------|
| Bioconcentration factor (BCF REACH) | ≥ 500 |
| Partition coefficient n-octanol/water (Log Kow) | ≥ 4 Octanol/water coefficient |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0) | |
|--|-------------------------------|
| Bioconcentration factor (BCF REACH) | ≥ 500 |
| Partition coefficient n-octanol/water (Log Kow) | ≥ 4 Octanol/water coefficient |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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) code : 20 01 13* - solvents

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HP Code

- : HP3 "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 $^{\circ}$ C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 - HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
 - HP7 "Carcinogenic:" waste which induces cancer or increases its incidence
 - HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|--|---|--|--|
| 14.1. UN number | | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| 14.2. UN proper shippin | g name | | | |
| AEROSOLS (Pentane; Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane) | AEROSOLS (Pentane; Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane) | Aerosols, flammable (Pentane ; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane) | AEROSOLS (Pentane ; Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane) | AEROSOLS (Pentane; Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane) |
| Transport document descr | iption | | | |
| UN 1950 AEROSOLS (Pentane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane), 2.1, (D), ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (Pentane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane), 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS | UN 1950 Aerosols, flammable (Pentane; Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane), 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (Pentane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane), 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (Pentane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane), 2.1, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard | class(es) | | | |
| 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| ************************************** | 2 22 | ************************************** | ************************************** | ************************************** |
| 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 | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |

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No supplementary information available

14.6. Special precautions for user

Overland transport

: 5F Classification code (ADR)

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

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E0 : P207 Packing instructions (ADR) : PP87, RR6, L2 Special packing provisions (ADR)

: MP9 Mixed packing provisions (ADR) Transport category (ADR) 2 : V14 Special provisions for carriage - Packages (ADR) 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

Packing instructions (IMDG) : P207, LP200 Special packing provisions (IMDG) PP87, L2 EmS-No. (Fire) : F-D EmS-No. (Spillage) S-U Stowage category (IMDG) None Stowage and handling (IMDG) SW1, SW22 Segregation (IMDG) SG69

Air transport

PCA Excepted quantities (IATA) : E0 : Y203 PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 203 : 75kg PCA max net quantity (IATA) CAO packing instructions (IATA) : 203 CAO max net quantity (IATA) : 150kg

: A145. A167. A802 Special provisions (IATA)

ERG code (IATA) 10L

Inland waterway transport

Classification code (ADN) : 5F

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

Limited quantities (ADN) : 1L Excepted quantities (ADN) · F0 Equipment required (ADN) : PP, EX, A VE01, VE04 Ventilation (ADN)

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

: MP9 Mixed packing provisions (RID) 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

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 550,7 g/l
Child-resistant fastening : Not applicable
Tactile warning : Not applicable

Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances) | Qualifying quantity (tonnes) | |
|---|------------------------------|------------|
| | Lower-tier | Upper-tier |
| P3a FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1 | 150 | 500 |
| E2 Hazardous to the Aquatic Environment in Category Chronic 2 | 200 | 500 |

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| | Particle aggregation state | Added | |
| | Contains | Added | |
| | Revision date | Modified | |
| | Supersedes | Modified | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 2.2 | EUH-statements | Added | |
| 3 | Composition/information on ingredients | Modified | |
| 5.1 | Unsuitable extinguishing media | Modified | |
| 5.2 | Fire hazard | Modified | |

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| 5.2 | Hazardous decomposition products in case of fire | Modified | |
|------|--|----------|--|
| 7.2 | Storage temperature | Added | |
| 10.3 | Possibility of hazardous reactions | Modified | |
| 13.1 | H code | Modified | |
| 16 | Abbreviations and acronyms | Modified | |

| 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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| N.O.S. | Not Otherwise Specified |
|--------|--|
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 | |
| Asp. Tox. 1 | Aspiration hazard, Category 1 | |
| Carc. 2 | Carcinogenicity, Category 2 | |
| EUH066 | | |
| Flam. Gas 1A | Flammable gases, Category 1A | |
| Flam. Liq. 1 | Flammable liquids, Category 1 | |
| Flam. Liq. 2 | Flammable liquids, Category 2 | |
| Flam. Liq. 3 | Flammable liquids, Category 3 | |
| Press. Gas (Comp.) | Gases under pressure : Compressed 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. | |
| H224 | Extremely flammable liquid and vapour. | |
| H225 | Highly flammable liquid and vapour. | |
| H226 | 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. | |
| H336 | May cause drowsiness or dizziness. | |
| H351 | Suspected of causing cancer. | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. | |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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