

**PURENO - LINJE MAERKERING - 151800PUR / 151802PUR**

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : PURENO - LINJE MAERKERING  
Product code : 151800PUR / 151802PUR.  
UFI : 0C2N-NY78-V10V-507G

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

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

Registered company name : PURENO A/S.  
Address : Rønnevangs Alle 8.3400.Hillerød.Denmar.  
Telephone : +45 70 260 267. Fax : .

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Aerosol, Category 1 (Aerosol 1, H222 - H229).  
Repeated exposure may cause skin dryness or cracking (EUH066).  
May produce an allergic reaction (EUH208).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).  
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.  
The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

**2.2. Label elements**

Mixture for aerosol application.

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS02



GHS07

Signal Word :

DANGER

Product identifiers :

EC 927-241-2 HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Additional labeling :

EUH208 Contains FATTY ACIDS, C-18, UNSATD. TRIMERS, COMPD. WITH 9-OCTADECEN-1-AMINE, (Z)-.  
May produce an allergic reaction.

EUH208 Contains FATTY ACIDS, TALL-OIL, COMPD. WITH OLEYLAMINE. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Hazard statements :

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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## Precautionary statements - Prevention :

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

## Precautionary statements - Response :

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/... if you feel unwell.

## Precautionary statements - Storage :

- P405 Store locked up.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

## Precautionary statements - Disposal :

- P501 Dispose of contents / container in accordance with national regulations

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances >= 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

| Identification   | Classification (EC) 1272/2008   | Note              | %               |
|--|---|-------------------|-----------------|
| CAS: 471-34-1<br>EC: 207-439-9<br><br>CARBONATE DE CALCIUM   |   | [i]               | 25 <= x % < 50  |
| INDEX: 601-004-00-0<br>CAS: 106-97-8<br>EC: 203-448-7<br>REACH: 01-2119474691-32<br><br>BUTANE   | GHS02, GHS04<br>Dgr<br>Flam. Gas 1A, H220   | C<br>[i]<br>[vii] | 10 <= x % < 25  |
| EC: 927-241-2<br>REACH: 01-2119471843-32<br><br>HYDROCARBONS, C9-C10, N-ALKANES,<br>ISOALKANES, CYCLICS, < 2% AROMATICS  | GHS08, GHS07, GHS02<br>Dgr<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Aquatic Chronic 3, H412<br>EUH066 | P                 | 2.5 <= x % < 10 |
| EC: 919-857-5<br>REACH: 01-2119463258-33-xxxx<br><br>HYDROCARBONS, C9-C11, N-ALKANES,<br>ISOALKANES, CYCLICS, < 2% AROMATICS   | GHS08, GHS07, GHS02<br>Dgr<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH066                            | P                 | 2.5 <= x % < 10 |
| INDEX: 607-195-00-7<br>CAS: 108-65-6<br>EC: 203-603-9<br>REACH: 01-2119475791-29<br><br>2-METHOXY-1-METHYLETHYL ACETATE  | GHS02<br>Wng<br>Flam. Liq. 3, H226  | [i]               | 2.5 <= x % < 10 |
| INDEX: 022-006-00-2<br>CAS: 13463-67-7<br>EC: 236-675-5<br><br>TITANIUM DIOXIDE [IN POWDER FORM<br>CONTAINING 1 % OR MORE OF PARTICLES<br>WITH AERODYNAMIC DIAMETER <= 10<br>µM] | GHS08<br>Wng<br>Carc. 2, H351   | [i]<br>[10]       | 2.5 <= x % < 10 |

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|  |  |          |                 |
|--|--|----------|-----------------|
| INDEX: 607-022-00-5<br>CAS: 141-78-6<br>EC: 205-500-4<br>REACH: 01-2119475103-46<br>ETHYL ACETATE  | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066                         | [i]      | 2.5 <= x % < 10 |
| CAS: 147900-93-4<br>EC: 604-612-4<br>REACH: 01-2119971821-33-0000<br>FATTY ACIDS, C-18, UNSATD. TRIMERS, COMPD. WITH 9-OCTADECEN-1-AMINE, (Z)- | GHS07, GHS09, GHS08<br>Wng<br>Acute Tox. 4, H302<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Chronic 2, H411 |          | 0.1 <= x % < 1  |
| CAS: 85711-55-3<br>EC: 288-315-1<br>REACH: 01-2119974148-28-0000<br>FATTY ACIDS, TALL-OIL, COMPDS. WITH OLEYLAMINE                             | GHS05, GHS07, GHS08<br>Dgr<br>Skin Sens. 1A, H317<br>Eye Dam. 1, H318<br>STOT RE 2, H373                             |          | 0 < x % < 0.1   |
| INDEX: 603-127-00-5<br>CAS: 78-92-2<br>EC: 201-158-5<br>BUTAN-2-OL   | GHS02, GHS07<br>Wng<br>Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT SE 3, H336                | C<br>[i] | 0 < x % < 0.05  |
| CAS: 108-11-2<br>EC: 203-551-7<br>4-METHYLPENTAN-2-OL  | GHS07, GHS02<br>Wng<br>Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                                   | [i]      | 0 < x % < 0.05  |

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[vii] Propellant gas

Note P: The carcinogen or mutagen classification does not apply because the substance contains less than 0.1 % w/w of benzene (EINECS 200-753-7).

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter <= 10 µm.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**5.1. Extinguishing media**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

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**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

**Fire prevention :**

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- European Union :

| CAS      | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|----------|-------------|-----------|-------------|-----------|---------|
| 108-65-6 | 275         | 50        | 550         | 100       | Peau    |
| 141-78-6 | 734         | 200       | 1468        | 400       | -       |

- UK :

| CAS      | TWA :    | STEL : | Ceiling : | Definition : | Criteria : |
|----------|----------|--------|-----------|--------------|------------|
| 471-34-1 | 10 mg/m3 | -      | -         | -            | TI         |

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|            |                       |                       |  |      |  |
|------------|-----------------------|-----------------------|--|------|--|
| 106-97-8   | 600 ppm<br>1450 mg/m3 | 750 ppm<br>1810 mg/m3 |  | Carc |  |
| 108-65-6   | 50 ppm<br>274 mg/m3   | 100 ppm<br>548 mg/m3  |  | Sk   |  |
| 13463-67-7 | 4 mg/m3               |                       |  |      |  |
| 141-78-6   | 200 ppm<br>734 mg/m3  | 400 ppm<br>1468 mg/m3 |  |      |  |
| 78-92-2    | 100 ppm<br>308 mg/m3  | 150 ppm<br>462 mg/m3  |  |      |  |
| 108-11-2   | 25 ppm<br>106 mg/m3   | 40 ppm<br>170 mg/m3   |  | Sk   |  |

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard ISO 16321.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

Particle filter according to standard EN143 :

- P1 (White)

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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Physical state : Viscous liquid.  
Spray.

**Colour**

Various

**Odour**

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : Not relevant.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) Not stated.  
:  
Explosive properties, upper explosivity limit (%) Not stated.  
:

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH (aqueous solution) : Not stated.  
pH : Not relevant.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Insoluble.  
Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : < 1

**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The mixture does not contain nanoforms.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**Aerosols**

Chemical combustion heat : Not specified.  
Inflammation time : Not specified.

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|                         |                |
|-------------------------|----------------|
| Deflagration density :  | Not specified. |
| Inflammation distance : | Not specified. |
| Flame height :          | Not specified. |
| Flame duration :        | Not specified. |

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

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

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

**11.1.1. Substances**

**a) Acute toxicity :**

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

|              |  |
|--------------|--|
| Oral route : | LD50 > 5000 mg/kg body weight<br>Species : Rat<br>OECD Guideline 401 (Acute Oral Toxicity) |
|--------------|--|

|                |   |
|----------------|---|
| Dermal route : | LD50 > 5000 mg/kg body weight<br>Species : Rabbit<br>OECD Guideline 402 (Acute Dermal Toxicity) |
|----------------|---|

|                              |   |
|------------------------------|---|
| Inhalation route (Vapours) : | LC50 > 5000 mg/l<br>Species : Rat<br>OECD Guideline 403 (Acute Inhalation Toxicity) |
|------------------------------|---|

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

|              |  |
|--------------|--|
| Oral route : | LD50 > 5000 mg/kg body weight<br>Species : Rat |
|--------------|--|



OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 &gt; 5000 mg/kg body weight

Species : Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) :

LC50 &gt; 5000 mg/m3

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

**b) Skin corrosion/skin irritation :**

No data available.

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2. Mixture****a) Acute toxicity :**

No data available.

**b) Skin corrosion/skin irritation :**

No data available.

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information****11.2. Information on other hazards****Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

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**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

**12.7. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

**14.1. UN number or ID number**

1950

**14.2. UN proper shipping name**

UN1950=AEROSOLS, flammable

**14.3. Transport hazard class(es)**

- Classification :



2.1

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

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**14.6. Special precautions for user**

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ  | Provis.         | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|-----------------|----|------|--------|
|         | 2     | 5F   | -        | 2.1   | -      | 1 L | 190 327 344 625 | E0 | 2    | D      |

| IMDG | Class | 2°Label  | Pack gr. | LQ        | EMS      | Provis.                    | EQ | Stowage Handling | Segregation |
|------|-------|----------|----------|-----------|----------|----------------------------|----|------------------|-------------|
|      | 2     | See SP63 | -        | See SP277 | F-D. S-U | 63 190 277 327 344 381 959 | E0 | - SW1 SW22       | SG69        |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo  | note           | EQ |
|------|-------|---------|----------|----------|----------|-------|--------|----------------|----|
|      | 2.1   | -       | -        | 203      | 75 kg    | 203   | 150 kg | A145 A167 A802 | E0 |
|      | 2.1   | -       | -        | Y203     | 30 kg G  | -     | -      | A145 A167 A802 | E0 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**SECTION 15 : REGULATORY INFORMATION**

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

**Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/197. (ATP 21)

**Container information:**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**Particular provisions :**

No data available.

**Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):**

The mixture does not contain a persistent organic pollutant.

**Swiss ordinance on the incentive tax on volatile organic compounds :**

|          |  |
|----------|--|
| 75-28-5  | 2-méthylpropane (alcool isobutylique, isobutane) |
| 108-65-6 | acétate de 1-méthoxy-2-propyle                   |
| 141-78-6 | acétate d'éthyle                                 |
| 78-92-2  | butane-2-ol (alcool sec-butylique)               |
| 74-98-6  | propane  |
| 106-97-8 | n-butane   |

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H220 Extremely flammable gas.

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                                 |
| H226   | Flammable liquid and vapour.  |
| H302   | Harmful if swallowed.   |
| H304   | May be fatal if swallowed and enters airways.                       |
| H317   | May cause an allergic skin reaction.                                |
| H318   | Causes serious eye damage.  |
| H319   | Causes serious eye irritation.                                      |
| H335   | May cause respiratory irritation.                                   |
| H336   | May cause drowsiness or dizziness.                                  |
| H351   | Suspected of causing cancer .                                       |
| H373   | May cause damage to organs through prolonged or repeated exposure . |
| H411   | Toxic to aquatic life with long lasting effects.                    |
| H412   | Harmful to aquatic life with long lasting effects.                  |
| EUH066 | Repeated exposure may cause skin dryness or cracking.               |

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
UFI : Unique formulation identifier.  
STEL : Short-term exposure limit  
TWA : Time Weighted Averages  
TLV : Threshold Limit Value (exposure)  
AEV : Average Exposure Value.  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
IMDG : International Maritime Dangerous Goods.  
IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
GHS02 : Flame  
GHS07 : Exclamation mark  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
SVHC : Substances of very high concern.