

# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

### 1.1. Product identifier

Product name : AMPERE TRAFFIC PAINT

Product code : 630101001, 630102001, 630103001, 630104001, 630106001, 630107001, 630109001

UFI : NQH5-S050-Q00Y-4SFW

### 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 : A.M.P.E.R.E. SYSTEM .

Address : 3 rue Antoine Balard - Z.I. du Vert Galant.95310.Saint-Ouen-l'Aumône .FRANCE.

Telephone : +33 1 34 64 72 72. Fax : +33 1 30 37 55 17.

fds@amperesystem.com

### 1.4. Emergency telephone number : 0344 892 0111

## 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.

### 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 919-857-5

DEAROMATIZED HYDROCARBONS

Additional labeling :

EUH208

Contains FATTY ACIDS, TALL-OIL, COMPDS. 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 :

P102

Keep out of reach of children.

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.

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|                                      |  |
|--------------------------------------|--|
| P251                                 | Do not pierce or burn, even after use.                                       |
| P261                                 | Avoid breathing dust/fume/gas/mist/vapours/spray.                            |
| Precautionary statements - Storage : |  |
| P410 + P412                          | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| Other information :                  |  |
|                                      | Do not use in a confined space.  |
|                                      | Not to be used for any usage other than those specified.                     |

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European CHemicals Agency (ECHA) under article 57 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.

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

| Identification  | (EC) 1272/2008   | Note            | %                   |
|---|--|-----------------|---------------------|
| EC: 919-857-5<br>REACH: 01-2119463258-33<br><br>DEAROMATIZED HYDROCARBONS   | GHS08, GHS07, GHS02<br>Dgr<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH:066                            | P               | 10 $\leq$ x % < 25  |
| 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 1, H220   | C<br>[1]<br>[7] | 10 $\leq$ x % < 25  |
| CAS: 74-98-6<br>EC: 200-827-9<br>REACH: 01-2119486944-21<br><br>PROPANE   | GHS02<br>Dgr<br>Flam. Gas 1, H220  | [1]<br>[7]      | 2.5 $\leq$ x % < 10 |
| EC: 927-241-2<br>REACH: 01-2119471843-32<br><br>DEAROMATIZED HYDROCARBONS   | 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>EUH:066 | P               | 2.5 $\leq$ x % < 10 |
| INDEX: 607-022-00-5<br>CAS: 141-78-6<br>EC: 205-500-4<br>REACH: 01-2119475103-46<br><br>ETHYL ACETATE   | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH:066                                  | [1]             | 2.5 $\leq$ x % < 10 |
| INDEX: 022-006-00-2<br>CAS: 13463-67-7<br>EC: 236-675-5<br><br>TITANIUM DIOXIDE [IN POWDER<br>FORM CONTAINING 1 % OR MORE OF<br>PARTICLES WITH AERODYNAMIC<br>DIAMETER $\leq$ 10 $\mu$ M] | GHS08<br>Wng<br>Carc. 2, H351  | [1]<br>[10]     | 2.5 $\leq$ x % < 10 |
| CAS: 75-28-5<br>EC: 200-857-2<br>REACH: 01-2119485395-27<br><br>ISOBUTANE (CONTENANT MOINS DE   | GHS02<br>Dgr<br>Flam. Gas 1, H220  | [1]<br>[7]      | 2.5 $\leq$ x % < 10 |

|  |  |  |                |
|--|--|--|----------------|
| 0.1% DE BUTADIENE)   |  |  |                |
| CAS: 85711-55-3<br>EC: 288-315-1<br>REACH: 01-2119974148-28-0000 | GHS05, GHS07, GHS08<br>Dgr<br>Skin Sens. 1A, H317<br>Eye Dam. 1, H318<br>STOT RE 2, H373 |  | 0 <= x % < 2.5 |
| FATTY ACIDS, TALL-OIL, COMPDS.<br>WITH OLEYLAMINE                |  |  |                |

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

#### Information on ingredients :

[7] Propellant gas

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

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.

### 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 (CO2)

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

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 spilled, 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.

## 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 (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS      | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|----------|-------------|-----------|-------------|-----------|---------|
| 141-78-6 | 734         | 200       | 1468        | 400       | -       |

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS        | TWA :    | STEL : | Ceiling : | Definition : | Criteria : |
|------------|----------|--------|-----------|--------------|------------|
| 106-97-8   | 1000 ppm |        |           |              |            |
| 74-98-6    | 1000 ppm |        |           |              |            |
| 141-78-6   | 400 ppm  |        |           |              |            |
| 13463-67-7 | 10 mg/m3 |        |           | A4           |            |
| 75-28-5    | 1000 ppm |        |           |              |            |

- Denmark (2008) :

| Stof       | TWA                                | VSTEL | Loftvaerdi | Anm |
|------------|------------------------------------|-------|------------|-----|
| 106-97-8   | 500 ppm<br>1200 mg/m <sup>3</sup>  |       |            |     |
| 74-98-6    | 1000 ppm<br>1800 mg/m <sup>3</sup> |       |            |     |
| 141-78-6   | 150 ppm<br>540 mg/m <sup>3</sup>   |       |            |     |
| 13463-67-7 | 6 mg/m <sup>3</sup>                |       |            |     |

- France (INRS - ED984 / 2019-1487) :

| CAS        | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|------------|-----------|-------------|-----------|-------------|---------|----------|
| 106-97-8   | 800       | 1900        | -         | -           | -       | -        |
| 141-78-6   | 200       | 734         | 400       | 1468        | -       | 84       |
| 13463-67-7 | -         | 10          | -         | -           | -       | -        |

- Finland (HTP-värden 2016) :

| CAS      | TWA :                             | STEL :                             | Ceiling : | Definition : | Criteria : |
|----------|-----------------------------------|------------------------------------|-----------|--------------|------------|
| 74-98-6  | 800 ppm<br>1500 mg/m <sup>3</sup> | 1100 ppm<br>2000 mg/m <sup>3</sup> |           |              |            |
| 141-78-6 | 200 ppm<br>730 mg/m <sup>3</sup>  | 400 ppm<br>1470 mg/m <sup>3</sup>  |           |              |            |

- Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, 2019) :

| CAS        | TWA :                            | STEL :                            | Ceiling : | Definition : | Criteria : |
|------------|----------------------------------|-----------------------------------|-----------|--------------|------------|
| 106-97-8   | 250 ppm<br>600 mg/m <sup>3</sup> |                                   |           |              |            |
| 74-98-6    | 500 ppm<br>900 mg/m <sup>3</sup> |                                   |           |              |            |
| 141-78-6   | 200 ppm<br>734 mg/m <sup>3</sup> | 400 ppm<br>1468 mg/m <sup>3</sup> |           | E            |            |
| 13463-67-7 | 5 mg/m <sup>3</sup>              |                                   |           |              |            |

- Netherlands / MAC-waarde (10 december 2014) :

| CAS      | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|----------|---------|---------|-----------|--------------|------------|
| 106-97-8 | 600 ppm | -       | -         | -            | -          |
| 141-78-6 | 150 ppm | 300 ppm | -         | -            | -          |

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|            |          |   |   |   |   |
|------------|----------|---|---|---|---|
| 13463-67-7 | 10 mg/m3 | - | - | - | - |
|------------|----------|---|---|---|---|

- Switzerland (SUVA PRO 2017) :

| CAS        | VME                                | VLE                                | Valeur plafond | Notations |
|------------|------------------------------------|------------------------------------|----------------|-----------|
| 106-97-8   | 800 ppm<br>1900 mg/m <sup>3</sup>  | 3200 ppm<br>7200 mg/m <sup>3</sup> |                |           |
| 74-98-6    | 1000 ppm<br>1800 mg/m <sup>3</sup> | 4000 ppm<br>7200 mg/m <sup>3</sup> |                |           |
| 141-78-6   | 400 ppm<br>1400 mg/m <sup>3</sup>  | 800 ppm<br>2800 mg/m <sup>3</sup>  |                | SSC       |
| 13463-67-7 | 3 a mg/m <sup>3</sup>              |                                    |                | SSC       |
| 75-28-5    | 800 ppm<br>1900 mg/m <sup>3</sup>  | 3200 ppm<br>7200 mg/m <sup>3</sup> |                |           |

- Sweden (AFS 2018 :1) :

| CAS        | TWA :                            | STEL :                            | Ceiling : | Definition : | Criteria : |
|------------|----------------------------------|-----------------------------------|-----------|--------------|------------|
| 141-78-6   | 150 ppm<br>550 mg/m <sup>3</sup> | 300 ppm<br>1100 mg/m <sup>3</sup> |           |              |            |
| 13463-67-7 | 5 mg/m <sup>3</sup>              |                                   |           |              |            |

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS        | TWA :                             | STEL :                            | Ceiling : | Definition : | Criteria : |
|------------|-----------------------------------|-----------------------------------|-----------|--------------|------------|
| 106-97-8   | 600 ppm<br>1450 mg/m <sup>3</sup> | 750 ppm<br>1810 mg/m <sup>3</sup> |           | Carc         |            |
| 141-78-6   | 200 ppm<br>- mg/m <sup>3</sup>    | 400 ppm<br>- mg/m <sup>3</sup>    |           |              |            |
| 13463-67-7 | - ppm<br>4 mg/m <sup>3</sup>      | - ppm<br>- mg/m <sup>3</sup>      |           |              |            |

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

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**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
300 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
1500 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
300 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
300 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
900 mg of substance/m<sup>3</sup>

## DEAROMATIZED HYDROCARBONS

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
300 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
1500 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
300 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 300 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 900 mg of substance/m<sup>3</sup>

## 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 EN166.

#### - 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)

Recommended properties :

- Impervious gloves in accordance with standard EN ISO 374-2

#### - 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.

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

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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 breathing vapours.

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.

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

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)

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****General information :**

|                  |                 |
|------------------|-----------------|
| Physical state : | Viscous liquid. |
|                  | Spray.          |

**Important health, safety and environmental information**

|   |                |
|---|----------------|
| pH :                                      | Not relevant.  |
| Boiling point/boiling range :             | Not specified. |
| Flash point interval :                    | Not relevant.  |
| Vapour pressure (50°C) :                  | Not relevant.  |
| Density :                                 | < 1            |
| Water solubility :                        | Insoluble.     |
| Melting point/melting range :             | Not specified. |
| Self-ignition temperature :               | Not specified. |
| Decomposition point/decomposition range : | Not specified. |
| Chemical combustion heat :                | Not specified. |
| Inflammation time :                       | Not specified. |
| Deflagration density :                    | Not specified. |
| Inflammation distance :                   | Not specified. |
| Flame height :                            | Not specified. |
| Flame duration :                          | Not specified. |

**9.2. Other information**

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 toxicological effects**

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****Acute toxicity :**

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|                                  |  |
|----------------------------------|--|
| Oral route :                     | LD50 > 5000 mg/kg<br>Species : Rat (recommended by the CLP)    |
| Dermal route :                   | LD50 > 5000 mg/kg<br>Species : Rabbit (recommended by the CLP) |
| Inhalation route (n/a) :         | LC50 > 4951 mg/m3<br>Species : Rat (recommended by the CLP)    |
| <b>DEAROMATIZED HYDROCARBONS</b> |  |
| Oral route :                     | LD50 > 5000 mg/kg<br>Species : Rat                             |
| Dermal route :                   | LD50 > 5000 mg/kg<br>Species : Rabbit                          |
| Inhalation route (n/a) :         | LC50 > 4951 mg/m3<br>Species : Rat                             |

**11.1.2. Mixture****Respiratory or skin sensitisation :**

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

**SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Substances****DEAROMATIZED HYDROCARBONS**

|                          |  |
|--------------------------|--|
| Fish toxicity :          | LC50 > 1000 mg/l<br>Species : Oncorhynchus mykiss<br>Duration of exposure : 96 h             |
| Crustacean toxicity :    | EC50 = 1000 mg/l<br>Species : Daphnia magna<br>Duration of exposure : 48 h                   |
| Algae toxicity :         | ECr50 > 1000 mg/l<br>Species : Pseudokirchnerella subcapitata<br>Duration of exposure : 72 h |
| Aquatic plant toxicity : | Species : Others   |

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances****DEAROMATIZED HYDROCARBONS**

|                                  |   |
|----------------------------------|---|
| Biodegradability :               | no degradability data is available, the substance is considered as not degrading quickly. |
| <b>DEAROMATIZED HYDROCARBONS</b> |   |
| 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. 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, preferably 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.

**Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :**

16 05 04 \* gases in pressure containers (including halons) containing dangerous substances

**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 2019 - IMDG 2018 - ICAO/IATA 2020).

**14.1. UN 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**

-

**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<br>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<br>277 327<br>344 381<br>959 | E0                 | - SW1<br>SW22     | SG69        |        |
| IATA    | Class | 2°Label  | Pack gr. | Passager  | Passager | Cargo                               | Cargo              | note              | EQ          |        |
|         | 2.1   | -        | -        | 203       | 75 kg    | 203                                 | 150 kg             | A145 A167<br>A802 | E0          |        |
|         | 2.1   | -        | -        | Y203      | 30 kg G  | -                                   | -                  | A145 A167<br>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. Transport in bulk according to Annex II of Marpol and the IBC Code**

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:

- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/217 (ATP 14)

**- Container information:**

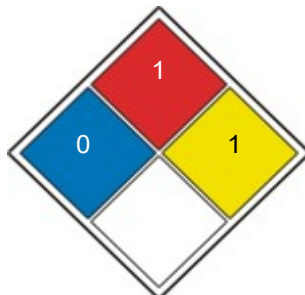
No data available.

**- Particular provisions :**

No data available.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none

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

|          |  |
|----------|--|
| 75-28-5  | 2-méthylpropane (alcool isobutylique, isobutane) |
| 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.  |
| 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.                                      |
| H336   | May cause drowsiness or dizziness.                                  |
| H351   | Suspected of causing cancer .                                       |
| H373   | May cause damage to organs through prolonged or repeated exposure . |
| H412   | Harmful to aquatic life with long lasting effects.                  |
| EUH066 | Repeated exposure may cause skin dryness or cracking.               |

**Abbreviations :**

DNEL : Derived No-Effect Level

UFI : Unique Formula Identifier

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.

GHS02 : Flame

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

#### DISCLAIMER

The information contained in this sheet comes from reliable sources. It has been drawn up based on our knowledge at the time of the most recent update, as indicated. This information is intended as an aid to the user and should not be considered as a guarantee.

Conditions or methods of handling, storage, use or disposal of the product are outside our control, and we may not be held responsible for any loss, damage or expenses incurred as a result of, or in connection with, the latter.

All substances or mixtures can present unknown dangers and must be used with caution. We cannot guarantee that all dangers have been set out in an exhaustive manner.

This sheet has been drawn up for, and must be used for, this product only. If the product is used as a component in another product, the information given with it may not be applicable.

This sheet does not under any circumstances exempt the user from complying with all laws, regulations and administrative requirements related to the product, health and safety, and the protection of human health and the environment.