# Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Denomination: **G10**
UFI : **SJSV-00WG-V002-QAVE**

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

Intended use **Aerosol lubricant.**

| Identified Uses | Industrial | Professional | Consumer |
|---|---|---|---|
| Consumer | - | - | ✔ |
| Industrial Use | ✔ | - | - |
| Professional Use | - | ✔ | - |

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

Name **Friulsider s.p.a.**
Full address **Via Trieste n.1**
District and Country **33048 S.Giovanni al Natisone (UD)**
**Italia**

**tel. +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm**

e-mail address of the competent person

responsible for the Safety Data Sheet **environmental@friulsider.com**

**1.4. Emergency telephone number**

For urgent inquiries refer to

**IT - Centro Antiveleni e Centro Nazionale di Informazione Tossicologica: Tel. 0382 24444 (IRCCS Fondazione Salvatore Maugeri - Pavia)**
**IT - Centro Antiveleni di Milano: Tel. 02 66101029 (Ospedale Niguarda Ca' Granda - Milano)**
**IT - Centro Antiveleni di Roma: Tel. 06 3054 343 (Policlinico Universitario A. Gemelli IRCCS - Roma)**
**IT - Centro Antiveleni di Bergamo: Tel. 800 883300 (ASST Papa Giovanni XXIII - Bergamo)**
**IT - Centro Antiveleni di Firenze: Tel. 055 794 7819 (Azienda Ospedaliera Universitaria Careggi - Firenze)**
**IT - Centro Antiveleni di Napoli: Tel. 081 5453333 (Azienda Ospedaliera A. Cardarelli - Napoli)**
**AT - Vergiftungsinformationszentrale (VIZ): Tel. +43 01 406 4343 (Austria)**
**BE - Belgisch Antigifcentrum: Tel. 070 245245 (Belgium)**
**BG - НАЦИОНАЛЕН ЦЕНТЪР ПО ТОКСИКОЛОГИЯ: Tel. +359 2 9154 233 (Bulgaria)**
**HR - Centar za kontrolu otrovanja: Tel. +385 1 2348342 (Croatia)**
**CY - Τμήμα Επιθεώρησης Εργασίας (TEE): Tel. 1401 (Cyprus)**
**CZ - Toxikologické informační středisko (TIS): Tel. +420 224 919 293 or +420 224 915 402 (Czech Republic)**
**DK - Giftlinjen: Ring 82 12 12 12 (Denmark)**
**EE - Mürgistusteabekeskus: Tel. 16662 (Estonia)**
**FI - Myrkytystietokeskus: Tel. 0800 147 111 or 09 471 977 (Finland)**
**FR - ORFILA (INRS): Tél. +33 (0) 1 45 42 59 59 (France)**
**DE - Giftnotruf der Charité Universitätsmedizin Berlin: Tel. +49 030 19240 (Germany)**
**GR - Κέντρο Δηλητηριάσεων: Τηλ. 210 7793777 (Greece)**
**HU - Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ): Tel. +36 80 20 1199 (Hungary)**
**IS - Eitrunarmiðstöð: Tel. 543 2222 (Iceland)**
**IE - National Poisons Information Centre (NPIC): Tel. 01 8092566 or 01 8379964 (Republic of Ireland)**
**LV - Latvian Poisons Information Centre: Tel. +371 67042473 (Latvia)**
**LT - Apsinuodijimų Informacijos biuras: Tel. 8-5 236 2052 (Lithuania)**
**LU - Giftinformationszentrum: Tel. +352 8002 5500 (Luxembourg)**

**NL - Nationaal Vergiftigingen Informatie Centrum (NVIC): Tel. 030 274 88 88 (Netherlands)**
**NO - Giftinformasjonen: Tel. 22 9 13 00 (Norway)**
**PL - Pomorskie Centrum Toksykologii: Tel. +58 682 04 04 (Poland)**
**PT - Centro de Informação Antivenenos (CIAV): Tel. 800 250 250 (Portugal)**
**RO - Biroul RSI Si Informare Toxicologica: Tel. 021 318 36 06 (Romania)**
**SK - Národné Toxikologické informačné centrum (NTIC): Tel. 02 5477 4166 (Slovakia)**
**SI - Center za klinično toksikologijo in farmakologijo: Tel. 112 (Slovenia)**
**ES - Servicio de Información Toxicológica (SIT) España: Tel.+34 91 562 04 20 (Spain)**
**SE - Giftinformationscentralen: Tel. 112 (Sweden)**
**CH - Schweizerisches Toxikologisches Informationszentrum (STIZ): Tel. +41 145 (Switzerland)**
**GB - National Poisons Information Service (NPIS) Tel. 0344 892 0111 (United Kingdom)**
**Members of the Public: NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales)**

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|---|---|---|
| Aerosol, category 1 | H222 | Extremely flammable aerosol. |
| | H229 | Pressurised container: may burst if heated. |

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Danger

Hazard statements:

| | |
|---|---|
| **H222** | Extremely flammable aerosol. |
| **H229** | Pressurised container: may burst if heated. |
| **EUH066** | Repeated exposure may cause skin dryness or cracking. |

Precautionary statements:

| | |
|---|---|
| **P210** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| **P251** | Do not pierce or burn, even after use. |
| **P410+P412** | Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F. |
| **P102** | Keep out of reach of children. |
| **P211** | Do not spray on an open flame or other ignition source. |
| **P501** | Dispose of contents/container in accordance with local regulations. |

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

## SECTION 3. Composition/information on ingredients

**3.2. Mixtures**

Contains:

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
|---|---|---|
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics** | | |
| CAS - | 51 ≤ x < 55 | Asp. Tox. 1 H304, EUH066 |
| EC 918-481-9 | | |
| INDEX - | | |
| REACH Reg. 01-2119457273-39-XXXX | | |
| **Propane** | | |
| CAS 74-98-6 | 19 ≤ x < 23 | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U |
| EC 200-827-9 | | |
| INDEX 601-003-00-5 | | |
| REACH Reg. 01-2119486944-21-0046 | | |
| **Butane** | | |
| CAS 106-97-8 | 9 ≤ x < 11 | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U |
| EC 203-448-7 | | |
| INDEX 601-004-00-0 | | |
| REACH Reg. 01-2119474691-32-XXXX | | |
| **Distillates (petroleum), hydrotreated light naphthenic** | | |
| CAS 64742-53-6 | 7 ≤ x < 9 | Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L |
| EC 265-156-6 | | Asp. Tox. 1 H304: ≥ 40% |
| INDEX 649-466-00-2 | | |
| REACH Reg. 01-2119480375-34-XXXX | | |
| **Isobutane** | | |
| CAS 75-28-5 | 1 ≤ x < 3 | Flam. Gas 1A H220, Press. Gas H280 |
| EC 200-857-2 | | |
| INDEX 601-004-00-0 | | |
| REACH Reg. 01-2119485395-27-XXXX | | |
| **Distillates (petroleum), hydrotreated light paraffinic** | | |
| CAS 64742-55-8 | 0 ≤ x < 0,5 | Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP |

Regulation: L

EC 265-158-7

INDEX 649-468-00-3

REACH Reg. 01-2119487077-29-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 31,70 %

Distillates (petroleum), hydrotreated light naphthenic
* DECLL (CLP): This substance is classified according to note L of Annex VI of CE regulation 1272/2008. Classification as a carcinogen is not necessary if one can demonstrate that the substance contains less than 3% DMSO extract according to IP 346 measurement "Determination of polycyclic aromatics in unused lubricating base oils and petroleum fractions without asphaltene - dimethyl sulfoxide extraction ", Institute of Petroleum, London. This note only applies to certain petroleum-derived compound substances contained in Part 3.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

**5.3. Advice for firefighters**

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

**6.2. Environmental precautions**

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

**7.1. Precautions for safe handling**

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

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

Information not available

## SECTION 8. Exposure controls/personal protection

**8.1. Control parameters**

Regulatory References:

| | | |
|---|---|---|
| DEU | Deutschland | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. |

| | | |
|---|---|---|
| | | MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 |
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| GRC | Ελλάδα | Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία``» |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| PRT | Portugal | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos |
| POL | Polska | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2020 |

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

| Predicted no-effect concentration - PNEC | |
|---|---|
| Normal value for the atmosphere | NPI |

**Propane**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 1800 | 1000 | 7200 | 4000 | |
| MAK | DEU | 1800 | 1000 | 7200 | 4000 | |
| VLA | ESP | | 1000 | | | |
| TLV | GRC | 1800 | 1000 | | | |
| NDS/NDSCh | POL | 1800 | | | | |

**Butane**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 2400 | 1000 | 9600 | 4000 | |
| MAK | DEU | 2400 | 1000 | 9600 | 4000 | |
| VLA | ESP | | 1000 | | | Gases |
| VLEP | FRA | 1900 | 800 | | | |
| TLV | GRC | 2350 | 1000 | | | |
| NDS/NDSCh | POL | 1900 | | 3000 | | |
| WEL | GBR | 1450 | 600 | 1810 | 750 | |
| WEL | GBR | | 4 | | | RESP |
| TLV-ACGIH | | | | | 1000 | |

**Distillates (petroleum), hydrotreated light naphthenic**

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value for the food chain (secondary poisoning) | 9,33 | mg/kg |

**Health - Derived no-effect level - DNEL / DMEL**

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | | | 5.4 mg/m3 8h | | | |

**Isobutane**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV-ACGIH | | | 800 | | | |

**Distillates (petroleum), hydrotreated heavy naphthenic**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | 5 | | 10 | | |
| TLV | GRC | 5 | | | | |
| VLEP | ITA | 5 | | | | INHAL |
| VLE | PRT | 5 | | 10 | | |
| NDS/NDSCh | POL | 5 | | | | |

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value for the food chain (secondary poisoning) | 9,33 | mg/kg |

**Distillates (petroleum), hydrotreated light paraffinic**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OEL | EU | 5 | | 10 | | |

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value for the food chain (secondary poisoning) | 9,33 | mg/kg |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION
None required.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and

water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

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

| Properties | Value | Information |
|---|---|---|
| Appearance | aerosol | |
| Colour | straw yellow | |
| Odour | characteristic of solvent | |
| Odour threshold | Not available | |
| Melting point / freezing point | Not available | |
| Initial boiling point | Not available | |
| Flammability | flammable gas | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Flash point | < 0 °C | |
| Auto-ignition temperature | Not available | |
| Decomposition temperature | Not available | |
| pH | Not available | Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture) |
| Kinematic viscosity | Not available | |
| Solubility | insoluble in water | |
| Partition coefficient: n-octanol/water | Not available | |
| Vapour pressure | Not available | |
| Density and/or relative density | 0, 70 ÷ 0,74 kg/l | Temperature: 20 °C |
| Relative vapour density | Not available | |

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics

| | |
|---|---|
| Total solids (250°C / 482°F) | 0 % |
| VOC (Directive 2010/75/EC) | 93,40 % - 672,48 g/litre |
| Explosive properties | not applicable |
| Oxidising properties | not applicable |

## SECTION 10. Stability and reactivity

**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid**

Avoid overheating.

**10.5. Incompatible materials**

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

**10.6. Hazardous decomposition products**

Information not available

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

| | |
|---|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture: | Not classified (no significant component) |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | |
|---|---|
| LD50 (Oral): | > 5000 mg/kg bw rat |
| LD50 (Dermal): | 2000 mg/kg bw rat |
| LC50 (Inhalation vapours): | > 4 mg/l/4h rat |

Propane

| | |
|---|---|
| LC50 (Inhalation mists/powders): | 800000 ppm 15 min |

Butane

| | |
|---|---|
| LC50 (Inhalation mists/powders): | > 1442,738 mg/l/15min rat |

Distillates (petroleum), hydrotreated light naphthenic

| | |
|---|---|
| LD50 (Oral): | 5000 mg/kg bw rat |
| LD50 (Dermal): | 3500 mg/kg bw rabbit |
| LC50 (Inhalation vapours): | 3,85 mg/l/4h rat |

Isobutane

| | |
|---|---|
| LC50 (Inhalation mists/powders): | > 1442,738 mg/l/15min rat |

Distillates (petroleum), hydrotreated light paraffinic

| | |
|---|---|
| LD50 (Oral): | 5000 mg/kg bw rat |
| LD50 (Dermal): | 3500 mg/kg bw rabbit |
| LC50 (Inhalation vapours): | 3,85 mg/l/4h rat |

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | |
|---|---|
| Chronic NOEC for Algae / Aquatic Plants | 1000 mg/l 72 hours |

Butane

| | |
|---|---|
| LC50 - for Fish | > 24,11 mg/l/96h |

Propane

| | |
|---|---|
| LC50 - for Fish | 85,82 mg/l/96h |
| EC50 - for Crustacea | 41,82 mg/l/48h |

Isobutane

| | |
|---|---|
| LC50 - for Fish | > 24,11 mg/l/96h |

**12.2. Persistence and degradability**

Propane
Global Warming Potential (GWP): 3. Ozone Depletion Potential (ODP): 0.

Distillates (petroleum), hydrotreated light naphthenic
Degradability: information not available

Echa sources

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Rapidly degradable
But failing the 10-day window (100%).

Butane

| | |
|---|---|
| Solubility in water | 0,1 - 100 mg/l |

Rapidly degradable

Propane

| | |
|---|---|
| Solubility in water | 0,1 - 100 mg/l |

Rapidly degradable

Isobutane

Rapidly degradable

Distillates (petroleum), hydrotreated light paraffinic
Degradability: information not available

**12.3. Bioaccumulative potential**

Butane

| | |
|---|---|
| Partition coefficient: n-octanol/water | 1,09 |

Propane

| | |
|---|---|
| Partition coefficient: n-octanol/water | 1,09 |

**12.4. Mobility in soil**

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

**12.6. Other adverse effects**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

## SECTION 13. Disposal considerations

**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Product residues are to be considered special hazardous waste.
Empty cans, even if completely emptied, must not be dispersed in the environment.
The aerosol container overheated to a temperature above 50 ° C may burst even if it contains a small residue of gas.
Disposal must take place in an authorized place and in compliance with the laws in force.
The transport of waste may be subject to ADR.
European waste catalog code (contaminated containers):

Aerosol as domestic waste is excluded from the application of the aforementioned rule.
The exhausted aerosol for professional / industrial use can be classified:
15.01.11 *: metallic packaging containing dangerous solid porous matrices, including empty pressure containers.

## SECTION 14. Transport information

**14.1. UN number**

| | |
|---|---|
| ADR / RID, IMDG, IATA: | 1950 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR / RID: | AEROSOLS |
| IMDG: | AEROSOLS |
| IATA: | AEROSOLS, FLAMMABLE |

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

| | | |
|---|---|---|
| ADR / RID: | Class: 2 | Label: 2.1 |
| IMDG: | Class: 2 | Label: 2.1 |
| IATA: | Class: 2 | Label: 2.1 |

**14.4. Packing group**

| | |
|---|---|
| ADR / RID, IMDG, IATA: | - |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR / RID: | NO |
| IMDG: | NO |
| IATA: | NO |

**14.6. Special precautions for user**

| | | | |
|---|---|---|---|
| ADR / RID: | HIN - Kemler: -- | Limited Quantities: 1 L | Tunnel restriction code: (D) |
| | Special provision: - | | |
| IMDG: | EMS: F-D, S-U | Limited Quantities: 1 L | |
| IATA: | Cargo: | Maximum quantity: 150 Kg | Packaging instructions: 203 |
| | Pass.: | Maximum quantity: 75 Kg | Packaging instructions: 203 |

Special provision: A145, A167, A802

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

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|---|---|
| **Flam. Gas 1A** | Flammable gas, category 1A |
| **Aerosol 1** | Aerosol, category 1 |
| **Aerosol 3** | Aerosol, category 3 |
| **Press. Gas (Liq.)** | Liquefied gas |
| **Press. Gas** | Pressurised gas |
| **Asp. Tox. 1** | Aspiration hazard, category 1 |
| **H220** | Extremely flammable gas. |
| **H222** | Extremely flammable aerosol. |
| **H229** | Pressurised container: may burst if heated. |
| **H280** | Contains gas under pressure; may burst if heated. |
| **H304** | May be fatal if swallowed and enters airways. |
| **EUH066** | Repeated exposure may cause skin dryness or cracking. |

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
02 / 11 / 12 / 15.