



## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Code: U055050004  
Product name: EOLO  
UFI: 6VD0-V0DF-P00J-VY4G

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

Intended use: Hygiene for air conditioning systems.  
Uses advised against: Uses other than those intended.

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

Name: CENTRO DISTRIBUZIONE UTENSILI S.p.a  
Full address: Via delle Gerole, 19  
District and Country: 20867 CAPONAGO (MB)  
ITALY  
tel. +39 02 95746081  
fax. + 39 02 95745182

e-mail address of the competent person responsible for the Safety Data Sheet Supplier:

info@cdu.net  
CENTRO DISTRIBUZIONE UTENSILI S.p.a

#### 1.4. Emergency telephone number

For urgent inquiries refer to: CENTRO DISTRIBUZIONE UTENSILI S.p.a +39 02 95746081  
(Technical support - Office hour 8.30-13.00 - 14.00-17.30)

### 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 2020/878. 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.  
**EUH208** Contains: PIN-2(10)-ENE; L-LIMONENE; D-LIMONENE; ORANGE, SWEET, EXT.  
May produce an allergic reaction.

## 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 not 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.

**Contains:** PROPAN-2-OL.

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.  
The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

Contains:

| Identification              | X = Conc. %                 | Classification (EC) 1272/2008 (CLP)   |
|-----------------------------|-----------------------------|---|
| <b>PROPANE</b>              |                             |   |
| INDEX 601-003-00-5          | 46,35 $\leq$ x $\leq$ 56,35 | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U   |
| EC 200-827-9                |                             |   |
| CAS 74-98-6                 |                             |   |
| REACH Reg. 01-2119486944-21 |                             |   |
| <b>BUTANE</b>               |                             |   |
| INDEX 601-004-00-0          | 12,75 $\leq$ x $\leq$ 22,75 | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U  |
| EC 203-448-7                |                             |   |
| CAS 106-97-8                |                             |   |
| REACH Reg. 01-2119474691-32 |                             |   |
| <b>ISOBUTANE</b>            |                             |   |
| INDEX 601-004-00-0          | 8 $\leq$ x $\leq$ 11        | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U  |
| EC 200-857-2                |                             |   |
| CAS 75-28-5                 |                             |   |
| REACH Reg. 01-2119485395-27 |                             |   |
| <b>PROPAN-2-OL</b>          |                             |   |
| INDEX 603-117-00-0          | 6,5 $\leq$ x $\leq$ 9,5     | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336  |
| EC 200-661-7                |                             |   |
| CAS 67-63-0                 |                             |   |
| REACH Reg. 01-2119457558-25 |                             |   |
| <b>ORANGE, SWEET, EXT.</b>  |                             |   |
| INDEX -                     | 0,075 $\leq$ x $\leq$ 0,085 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C, P |
| EC 232-433-8                |                             |   |
| CAS 8028-48-6               |                             |   |
| REACH Reg. 01-2119493353-35 |                             |   |
| <b>D-LIMONENE</b>           |                             |   |



INDEX 601-029-00-2 0,069 ≤ x ≤ 0,079 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5

CAS 5989-27-5

REACH Reg. 01-2119529223-47

#### L-LIMONENE

INDEX 601-029-00-7 0,05 ≤ x ≤ 0,06 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 227-815-6

CAS 5989-54-8

REACH Reg. 01-2119958629-18

#### PIN-2(10)-ENE

INDEX - 0,015 ≤ x ≤ 0,016 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 204-872-5

CAS 127-91-3

REACH Reg. 01-2119519230-54

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 max: 90,10 %

## 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 for the doctor: symptomatically treatment.

## 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.

Storage class TRGS 510 (Germany): 2B

### 7.3. Specific end use(s)

Hygiene for air conditioning systems.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

|     |                  |  |
|-----|------------------|--|
| AUS | Österreich       | Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021   |
| BEL | Belgique         | Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail   |
| BGR | България         | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)   |
| CHE | Suisse / Schweiz | Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)   |
| CZE | Česká Republika  | Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů   |
| 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  |
| DNK | Danmark          | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019  |
| ESP | España           | Límites de exposición profesional para agentes químicos en España 2021   |
| EST | Eesti            | Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnõrmi [RT I, 17.10.2019, 1 - jõust. 17.01.2020]  |
| FRA | France           | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS   |
| FIN | Suomi            | HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25   |
| 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 μεταλλαξιογόνους παράγοντες κατά την εργασία``» |
| HUN | Magyarország     | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki   |


|     |          |  |
|-----|----------|--|
| HRV | Hrvatska | tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről   |
| IRL | Éire     | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |
| LTU | Lietuva  | 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)    |
|     |          | Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo                  |


PROPANE

| Threshold Limit Value |         |        |      |            |      |
|-----------------------|---------|--------|------|------------|------|
| Type                  | Country | TWA/8h |      | STEL/15min |      |
|                       |         | mg/m3  | ppm  | mg/m3      | ppm  |
| MAK                   | AUS     | 1800   | 1000 | 3600       | 2000 |
| TRK                   | AUS     | 1800   | 1000 | 3600       | 2000 |
| VLEP                  | BEL     |        | 1000 |            |      |
| TLV                   | BGR     | 1800   |      |            |      |
| MAK                   | CHE     | 1800   | 1000 | 7200       | 4000 |
| VME/VLE               | CHE     | 1800   | 1000 | 7200       | 4000 |
| AGW                   | DEU     | 1800   | 1000 | 7200       | 4000 |
| MAK                   | DEU     | 1800   | 1000 | 7200       | 4000 |
| TLV                   | DNK     | 1800   | 1000 |            |      |
| VLA                   | ESP     |        | 1000 |            |      |
| TLV                   | EST     | 1800   | 1000 |            |      |
| HTP                   | FIN     | 1500   | 800  | 2000       | 1100 |
| TLV                   | GRC     | 1800   | 1000 |            |      |
| RV                    | LVA     | 1800   | 100  |            |      |
| TLV                   | NOR     | 900    | 500  |            |      |
| NDS/NDSch             | POL     | 1800   |      |            |      |
| TLV                   | ROU     | 1400   | 778  | 1800       | 1000 |
| MV                    | SVN     | 1800   | 1000 | 7200       | 4000 |

BUTANE

| Threshold Limit Value |         |        |      |            |      |
|-----------------------|---------|--------|------|------------|------|
| Type                  | Country | TWA/8h |      | STEL/15min |      |
|                       |         | mg/m3  | ppm  | mg/m3      | ppm  |
| MAK                   | AUS     | 1900   | 800  | 3800       | 1600 |
| TRK                   | AUS     | 1600   | 800  | 3800       | 1600 |
| VLEP                  | BEL     |        |      | 2370       | 980  |
| TLV                   | BGR     | 1900   |      |            |      |
| MAK                   | CHE     | 1900   | 800  | 7600       | 3200 |
| VME/VLE               | CHE     | 1900   | 800  | 7600       | 3200 |
| AGW                   | DEU     | 2400   | 1000 | 9600       | 4000 |
| MAK                   | DEU     | 2400   | 1000 | 9600       | 4000 |
| TLV                   | DNK     | 1200   | 500  |            |      |
| VLA                   | ESP     |        | 1000 |            |      |
| TLV                   | EST     | 1500   | 800  |            |      |
| VLEP                  | FRA     | 1900   | 800  |            |      |

|  |                                     |        |      |            |  |                           |
|--|-------------------------------------|--------|------|------------|--|---------------------------|
|  | CENTRO DISTRIBUZIONE UTENSILI S.p.a |        |      |            | Revision nr. 2   | EN                        |
|  | EOLO                                |        |      |            | Dated 22/03/2023<br>Printed on 22/03/2023<br>Page n. 6/16<br>Replaced revision:1 (Dated: 28/04/2020) |                           |
| HTP  | FIN                                 | 1900   | 800  | 2400       | 1000   |                           |
| TLV  | GRC                                 | 2350   | 1000 |            |  |                           |
| AK   | HUN                                 | 2350   |      | 9400       |  |                           |
| GVI/KGVI   | HRV                                 | 1450   | 600  | 1810       | 750  |                           |
| OELV   | IRL                                 |        |      |            | 1000   | All Isomers               |
| RV   | LVA                                 | 300    |      |            |  |                           |
| TLV  | NOR                                 | 600    | 250  |            |  |                           |
| TGG  | NLD                                 | 1430   |      |            |  |                           |
| NDS/NDSch  | POL                                 | 1900   |      | 3000       |  |                           |
| MV   | SVN                                 | 2400   | 1000 | 9600       | 4000   |                           |
| WEL  | GBR                                 | 1450   | 600  | 1810       | 750  |                           |
| WEL  | GBR                                 |        | 4    |            |  | RESP                      |
| TLV-ACGIH  |                                     |        |      |            | 1000   |                           |
| ISOBUTANE  |                                     |        |      |            |  |                           |
| Threshold Limit Value  |                                     |        |      |            |  |                           |
| Type   | Country                             | TWA/8h |      | STEL/15min |  | Remarks / Observations    |
|  |                                     | mg/m3  | ppm  | mg/m3      | ppm  |                           |
| VLEP   | BEL                                 |        |      | 2370       | 980  |                           |
| MAK  | CHE                                 | 1900   | 800  |            |  |                           |
| VME/VLE  | CHE                                 | 1900   | 800  |            |  |                           |
| AGW  | DEU                                 | 2400   | 1000 | 9600       | 4000   |                           |
| MAK  | DEU                                 | 2400   | 1000 | 9600       | 4000   |                           |
| HTP  | FIN                                 | 1900   | 800  | 2400       | 1000   |                           |
| OELV   | IRL                                 |        |      |            | 1000   |                           |
| TLV-ACGIH  |                                     |        |      |            | 1000   |                           |
| PROPAN-2-OL  |                                     |        |      |            |  |                           |
| Threshold Limit Value  |                                     |        |      |            |  |                           |
| Type   | Country                             | TWA/8h |      | STEL/15min |  | Remarks / Observations    |
|  |                                     | mg/m3  | ppm  | mg/m3      | ppm  |                           |
| MAK  | AUS                                 | 500    | 200  | 2000       | 800  | Häufigkeit pro Schicht:4x |
| VLEP   | BEL                                 | 500    | 200  | 1000       | 400  |                           |
| TLV  | BGR                                 | 980    |      | 1225       |  |                           |
| MAK  | CHE                                 | 500    | 200  | 1000       | 400  |                           |
| VME/VLE  | CHE                                 | 500    | 200  | 1000       | 400  |                           |
| TLV  | CZE                                 | 500    | 200  | 1000       | 400  |                           |
| AGW  | DEU                                 | 500    | 200  | 1000       | 400  |                           |
| MAK  | DEU                                 | 500    | 200  | 1000       | 400  |                           |
| TLV  | DNK                                 | 490    | 200  | 980        | 400  |                           |
| VLA  | ESP                                 | 500    | 200  | 1000       | 400  |                           |
| TLV  | EST                                 | 350    | 150  | 600        | 250  |                           |
| VLEP   | FRA                                 |        |      | 980        | 400  |                           |
| HTP  | FIN                                 | 500    | 200  | 620        | 250  |                           |
| TLV  | GRC                                 | 980    | 400  | 1225       | 500  |                           |

|  |                                     |                |               |                  |                    |  |               |                  |    |
|--|-------------------------------------|----------------|---------------|------------------|--------------------|--|---------------|------------------|----|
|  | CENTRO DISTRIBUZIONE UTENSILI S.p.a |                |               |                  |                    | Revision nr. 2<br>Dated 22/03/2023   |               |                  | EN |
|  | EOLO                                |                |               |                  |                    | Printed on 22/03/2023<br>Page n. 7/16<br>Replaced revision:1 (Dated: 28/04/2020) |               |                  |    |
|  |                                     |                |               |                  |                    |  |               |                  |    |
| GVI/KGVI   | HRV                                 | 999            | 400           | 1250             | 500                |  |               |                  |    |
| OELV   | IRL                                 |                | 200           |                  | 400                | SKIN   |               |                  |    |
| RD   | LTU                                 | 350            |               | 600              |                    |  |               |                  |    |
| RV   | LVA                                 | 350            |               | 600              |                    |  |               |                  |    |
| TLV  | NOR                                 | 245            | 100           |                  |                    |  |               |                  |    |
| TGG  | NLD                                 | 650            |               |                  |                    |  |               |                  |    |
| NDS/NDSch  | POL                                 | 900            |               | 1200             |                    | SKIN   |               |                  |    |
| TLV  | ROU                                 | 200            | 81            | 500              | 203                |  |               |                  |    |
| NGV/KGV  | SWE                                 | 350            | 150           | 600              | 250                |  |               |                  |    |
| NPEL   | SVK                                 | 500            | 200           | 1000             | 400                |  |               |                  |    |
| MV   | SVN                                 | 500            | 200           | 1000             | 400                |  |               |                  |    |
| WEL  | GBR                                 | 999            | 400           | 1250             | 500                |  |               |                  |    |
| TLV-ACGIH  |                                     |                | 200           |                  | 400                |  |               |                  |    |
| Predicted no-effect concentration - PNEC   |                                     |                |               |                  |                    |  |               |                  |    |
| Normal value in fresh water  |                                     |                |               | 140,9            |                    | mg/l   |               |                  |    |
| Normal value in marine water   |                                     |                |               | 140,9            |                    | mg/l   |               |                  |    |
| Normal value for fresh water sediment  |                                     |                |               | 552              |                    | mg/kg  |               |                  |    |
| Normal value for marine water sediment   |                                     |                |               | 552              |                    | mg/kg  |               |                  |    |
| Normal value for water, intermittent release                                     |                                     |                |               | 140,9            |                    | mg/l   |               |                  |    |
| Normal value of STP microorganisms   |                                     |                |               | 2251             |                    | mg/l   |               |                  |    |
| Normal value for the food chain (secondary poisoning)                            |                                     |                |               | 160              |                    | mg/kg  |               |                  |    |
| Normal value for the terrestrial compartment                                     |                                     |                |               | 28               |                    | 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 |    |
| Oral   |                                     |                |               | 26 mg/kg bw/d    |                    |  |               |                  |    |
| Inhalation   |                                     |                |               | 89 mg/m3         |                    |  |               | 500 mg/m3        |    |
| Skin   |                                     |                |               | 319 mg/kg bw/d   |                    |  |               | 888 mg/kg bw/d   |    |
| D-LIMONENE   |                                     |                |               |                  |                    |  |               |                  |    |
| Threshold Limit Value  |                                     |                |               |                  |                    |  |               |                  |    |
| Type   | Country                             | TWA/8h         |               | STEL/15min       |                    | Remarks / Observations   |               |                  |    |
|  |                                     | mg/m3          | ppm           | mg/m3            | ppm                |  |               |                  |    |
| MAK  | CHE                                 | 40             | 7             | 80               | 14                 |  |               |                  |    |
| VME/VLE  | CHE                                 | 40             | 7             | 80               | 14                 |  |               |                  |    |
| AGW  | DEU                                 | 28             | 5             | 110              | 20                 | SKIN   |               |                  |    |
| MAK  | DEU                                 | 28             | 5             | 112              | 20                 | SKIN   |               |                  |    |
| VLA  | ESP                                 | 168            | 30            | 80               | 14                 | SKIN   |               |                  |    |
| HTP  | FIN                                 | 140            | 25            | 280              | 50                 |  |               |                  |    |
| Predicted no-effect concentration - PNEC   |                                     |                |               |                  |                    |  |               |                  |    |
| Normal value in fresh water  |                                     |                |               | 0,0014           |                    | mg/l   |               |                  |    |
| Normal value in marine water   |                                     |                |               | 0,00014          |                    | mg/l   |               |                  |    |
| Normal value for fresh water sediment  |                                     |                |               | 3,85             |                    | mg/kg/d  |               |                  |    |
| Normal value for marine water sediment   |                                     |                |               | 0,385            |                    | mg/kg/d  |               |                  |    |

|  |  |  |    |
|--|--|--|----|
|  | <b>CENTRO DISTRIBUZIONE UTENSILI S.p.a</b> | Revision nr. 2<br>Dated 22/03/2023<br>Printed on 22/03/2023<br>Page n. 8/16<br>Replaced revision:1 (Dated: 28/04/2020) | EN |
|  | <b>EOLO</b>                                |  |    |

|   |             |                |               |                    |                |                |               |                  |
|---|-------------|----------------|---------------|--------------------|----------------|----------------|---------------|------------------|
| Normal value of STP microorganisms                    |             |                |               | 1,8                | mg/l           |                |               |                  |
| Normal value for the food chain (secondary poisoning) |             |                |               | 133                | mg/kg          |                |               |                  |
| Normal value for the terrestrial compartment          |             |                |               | 0,763              | mg/kg/d        |                |               |                  |
| <b>Health - Derived no-effect level - DNEL / DMEL</b> |             |                |               |                    |                |                |               |                  |
| 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 |
| Oral  |             |                |               | 4,8 mg/kg bw/d     |                |                |               |                  |
| Inhalation  |             |                |               | 16,6 mg/m3         | 66,7 mg/m3     |                |               |                  |
| Skin  |             |                |               | 4,8 mg/kg bw/d     | 9,5 mg/kg bw/d |                |               |                  |

| PIN-2(10)-ENE         |         |        |            |                        |     |
|-----------------------|---------|--------|------------|------------------------|-----|
| Threshold Limit Value |         |        |            |                        |     |
| Type                  | Country | TWA/8h | STEL/15min | Remarks / Observations |     |
|                       |         | mg/m3  | ppm        | mg/m3                  | ppm |
| VLEP                  | BEL     |        | 20         |                        |     |
| MAK                   | CHE     | 112    | 20         | 224                    | 40  |
| TLV                   | DNK     | 140    | 25         | 280                    | 50  |
| TLV                   | NOR     | 140    | 25         |                        |     |
| NGV/KGV               | SWE     | 150    | 25         | 300                    | 50  |
| TLV-ACGIH             |         |        | 20         |                        |     |

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; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

## 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     | colourless |             |





|  |                                      |   |
|--|--------------------------------------|---|
| Odour                                  | mild citrus fruit                    |   |
| Odour threshold                        | not applicable                       |   |
| Melting point / freezing point         | not available                        |   |
| Initial boiling point                  | not available                        |   |
| Flammability                           | not applicable                       |   |
| Lower explosive limit                  | not available                        |   |
| Upper explosive limit                  | not available                        |   |
| Flash point                            | not applicable                       | Reason for missing data: does not apply to aerosols and gases.                  |
| Auto-ignition temperature              | not available                        |   |
| Decomposition temperature              | not available                        |   |
| pH                                     | not applicable                       |   |
| Kinematic viscosity                    | not available                        |   |
| Solubility                             | in water: total; in acetone: partial | Note: refers to the liquid base without considering the propellant.             |
| Partition coefficient: n-octanol/water | not available                        |   |
| Vapour pressure                        | not available                        |   |
| Density and/or relative density        | not available                        |   |
| Relative vapour density                | 0,8 kg/dm <sup>3</sup>               | Note: the density refers to the liquid base without considering the propellant. |
| Particle characteristics               | not applicable                       |   |

## 9.2. Other information

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

### 9.2.2. Other safety characteristics

|                            |                |
|----------------------------|----------------|
| VOC (Directive 2010/75/EU) | 100 %          |
| 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.

#### D-LIMONENE

Possibility of reaction with oxidizing substances. Highly exothermic reaction when mixed with approximately 50/50 alkylbenzene sulfonic acid.

### 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.

#### PROPAN-2-OL

Not explosive, however the formation of explosive vapor/air mixtures is possible.

#### ORANGE, SWEET, EXT.

Reacts with: strong oxidising agents.

#### D-LIMONENE

May react with: oxidising substances.

### 10.4. Conditions to avoid



Avoid overheating.

PROPAN-2-OL

Avoid exposure to: heat, naked flames, ignition sources.

ORANGE, SWEET, EXT.

Avoid exposure to: heat, naked flames, electrostatic discharges.

D-LIMONENE

Avoid exposure to: naked flames, direct sunlight.

#### 10.5. Incompatible materials

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

PROPAN-2-OL

Incompatible with: strong oxidising agents, strong acids, alkaline metals, amines, aluminium, iron.

ORANGE, SWEET, EXT.

Incompatible with: mineral acids, strong oxidising agents.

D-LIMONENE

Avoid contact with: oxidising agents, acids.

#### 10.6. Hazardous decomposition products

PROPAN-2-OL

In decomposition develops: carbon oxides.

ORANGE, SWEET, EXT.

May develop: carbon dioxide, carbon monoxide.

D-LIMONENE

In decomposition develops: carbon oxides.

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

##### 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)

PROPAN-2-OL

LD50 (Dermal):

13900 mg/kg Rabbit (OECD 402)

LD50 (Oral):

5840 mg/kg Rat (OECD 401)

LC50 (Inhalation vapours):

> 10000 mg/l/6h Rat (OECD 403)

ORANGE, SWEET, EXT.

LD50 (Dermal):

> 5000 mg/kg Rabbit



LD50 (Oral): 4400 mg/kg Rat

**D-LIMONENE**

LD50 (Dermal): > 5000 mg/kg dw Rabbit  
LD50 (Oral): > 2000 mg/kg dw Female rat (OECD 423)

**PIN-2(10)-ENE**

LD50 (Dermal): > 5000 mg/kg bw Rabbit  
LD50 (Oral): > 5000 mg/kg Rat

**SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class.

**SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class.

**RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction.

Contains: PIN-2(10)-ENE; L-LIMONENE; D-LIMONENE; ORANGE, SWEET, EXT.

**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**

Does not meet the classification criteria for this hazard class.

**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**

**PROPAN-2-OL**

LC50 - for Fish 9640 mg/l/96h Pimephales promelas

EC50 - for Crustacea 10000 mg/l/48h Daphnia magna

**PIN-2(10)-ENE**

LC50 - for Fish 0,557 mg/l/96h Cyprinus carpio

EC50 - for Crustacea 1250 mg/l/48h Daphnia magna

**D-LIMONENE**

LC50 - for Fish

0,72 mg/l Pimephales promelas (OECD 203)

EC50 - for Algae / Aquatic Plants

0,32 mg/l/72h Pseudokirchnella subcapitata

**ORANGE, SWEET, EXT.**

LC50 - for Fish

&lt; 1 mg/l/96h

EC50 - for Crustacea

&lt; 1 mg/l/48h

EC50 - for Algae / Aquatic Plants

&lt; 1 mg/l/72h

Chronic NOEC for Fish

2,35 mg/l

**12.2. Persistence and degradability****BUTANE**

Rapidly degradable

**PROPANE**

Rapidly degradable

**PROPAN-2-OL**

Solubility in water

Soluble

Rapidly degradable

**PIN-2(10)-ENE**

Solubility in water

0,02 mg/l

**D-LIMONENE**

Solubility in water

Insoluble

Rapidly degradable

80% - 28d (OECD 301D)

**ORANGE, SWEET, EXT.**

Solubility in water

13,8 mg/l

Entirely degradable

**12.3. Bioaccumulative potential****PROPAN-2-OL**

Partition coefficient: n-octanol/water

0,05 Log Kow (OECD 107)

**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  $\geq$  than 0,1%.**12.6. Endocrine disrupting properties**

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.

## SECTION 14. Transport information

### 14.1. UN number or ID 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: --  
Special provision: -

Limited Quantities: 1 L

Tunnel restriction code: (D)

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. Maritime transport in bulk according to IMO instruments



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/EU: 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 (EU) 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  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Information not available.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: hazard to waters.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

## 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           |
| Flam. Liq. 2      | Flammable liquid, category 2  |
| Flam. Liq. 3      | Flammable liquid, category 3  |
| Press. Gas (Liq.) | Liquefied gas                 |
| Asp. Tox. 1       | Aspiration hazard, category 1 |
| Eye Irrit. 2      | Eye irritation, category 2    |
| Skin Irrit. 2     | Skin irritation, category 2   |



|                          |  |
|--------------------------|--|
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>H220</b>              | Extremely flammable gas.   |
| <b>H222</b>              | Extremely flammable aerosol.                                       |
| <b>H229</b>              | Pressurised container: may burst if heated.                        |
| <b>H225</b>              | Highly flammable liquid and vapour.                                |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H280</b>              | Contains gas under pressure; may explode if heated.                |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |
| <b>H400</b>              | Very toxic to aquatic life.  |
| <b>H410</b>              | Very toxic to aquatic life with long lasting effects.              |

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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).

Classification and procedure used to derive it according to Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

|   |                            |
|---|----------------------------|
| Classification according to Regulation (EC) n.1272/2008 | Classification procedure   |
| Aerosol 1 H222+H229                                     | Based on experimental data |

## 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 (EC) 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)
22. Delegated Regulation (UE) 2022/692 (XVIII 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:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.