**SAFETY** SHEET **129**

# COOL SEALER

## 1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

### 1.1 Product Identifier

| | |
|---|---|
| Product name | COOL SEALER |

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

| | |
|---|---|
| Description/Application | PROTECTIVE FOR COOL FUSION |

### 1. 3 Details of the supplier of the safety data sheet

| | |
|---|---|
| Name: | BERICALCE S.R.L. |
| Full address: | Via Piave, 23 - 36033 Isola Vicentina (VI) |
| Phone: | Tel1: +39 0444 929102<br>Tel2: +39 0444 654919 |
| E-mail address of the competent person responsible to the Safety Data Sheet | info@bericalce.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| For urgent inquiries refer to | SANITARY EMERGENCY |

## 2 HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product is classified as hazardous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP (and subsequent amendments and adjustments). Therefore, the product requires a safety data sheet in compliance with the provisions of Regulation (EU) 2020/878.
Any additional information regarding health and/or environmental hazards is provided in sections 11 and 12 of this sheet.

Classification and hazard statements

| | |
|---|---|
| Flammable liquid, category 3 | H226 Flammable liquid and vapor. |
| Hazardous if inhaled, category 1 | H304 May be fatal if swallowed and enters airways. |
| Specific target organ toxicity - single exposure, category 3 | H336 May cause drowsiness or dizziness. |

### 2.2 Label elements

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.
Hazard pictograms:

Warning: Danger

| | |
|---|---|
| Hazard statements: | |
| H226 | Flammable liquid and vapors. |
| H304 | May be fatal if swallowed and enters respiratory tract. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause dry or cracked skin. |
| Cautionary Statements: | |
| P501 | Dispose of product/container in accordance with local/regional/ national/international regulations. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. Do not smoke. |
| P331 | DO NOT induce vomiting. |
| P280 | Wear protective gloves / clothing and protect eyes / face. |
| P301+P310 | IF INGESTION: Immediately contact a POISON CENTER/ a physician. |
| Contains: | C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS |

**2.3. Other dangers**

Based on available data, the product does not contain PBT or vPvB substances in a concentration ≥ 0.1%.
The product does not contain substances with endocrine-disrupting properties in concentration ≥ 0,1%.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

**3.1 Substance**

No relevant information.

**3.2 Mixtures**

It contains:

| Identification | Conc. %. | Classification 1272/2008 (CLP). |
|---|---|---|
| C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | | |
| CAS -<br>EC 919-857-5<br>INDEX -<br>REACH Reg. 01-2119463258-33 | 82 ≤ x < 100 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066 |
| (2-methoxyethoxy) propanol | | |
| CAS 34590-94-8<br>EC 252-104-2<br>INDEX -<br>REACH Reg. 01-2119450011-60 | 0.708 ≤ x < 0.808 | Eye Irrit. 2 H319 |
| ETHYL SILICATE | | |
| CAS 78-10-4<br>EC 201-083-8 3<br>INDEX 014-005-00-0<br>REACH Reg. 01-2119496195-28 | 0.07 ≤ x < 0.11 | Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE H335 STA Inhalation vapors:11mg/l,STA Inhalation mists/ dusts: 1.5 mg/l |
| METHANOL | | |
| CAS 67-56-1<br><br>CE 200-659-6<br>INDEX 603-001-00-X | 0 ≤ x < 0.02 | Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370<br>STOT SE 2 H371: ≥ 3%.<br>STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation Vapors: 3 mg/l, STA Inhalation mists/dusts: 0.501 mg/l. |

The full text of the hazard statements (H) is given in section 16 of the sheet.

## 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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again. INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

There are no specific information on symptoms and effects caused by the product.

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

Information not available.

## 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to preventexplosions.

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

HAZARDS CAUSED BYEXPOSURE IN THE EVENTOF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion.Do not breathe combustion products.

### 5.3 Advice for firefighters

GENERAL INFORMATION
Cool containers with jets of water to prevent decomposition of the product and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect firefighting water that must not be discharged into the sewer system. Dispose of contaminated water used for extinguishing and fire residue according to applicable regulations.
EQUIPMENT
Normal firefighting clothing, such as an open-circuit self-contained compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
Send away individuals who are not suitably equipped. Use explosion-proof equipment.
Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. 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.

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges.
When performing transfer operations involving large containers, connect to an earthing system and wear fantistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3 Specific end use(s)

Information not available.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

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
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 HÄLSOVÅRDSMINISTERIETS 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 μεταλλαξιγόνους παράγοντες κατά την εργασία``»
HUN Magyarország Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV Hrvatska Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA Italia Decreto Legislativo 9 Aprile 2008, n.81
NOR Norge Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD Nederland Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

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
ROU România Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum şi pentru modificarea şi completarea hotărârii guvernului nr. 1.093/2006
SWE Sverige Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS
2018:1)
SVK Slovensko NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády
Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN Slovenija Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list
RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR Türkiye Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU OEL EU Direttiva (UE) 2022/431; Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983;
Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
TLV-ACGIH ACGIH 2021

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

| Threshold Limit Value | | | | | | |
|---|---|---|---|---|---|---|
| Type | State | TWA/8h | | STEL/15min | | Remarks / Observations |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV-ACGIH | | 1200 | 197 | 0 | 0 | TOTAL HYDROCARBONS |
| Predicted concentration of no effect on the environment - PNEC | | | | | | |
| Reference value in fresh water | | | | VND | | |
| Reference value in marine water | | | | VND | | |
| Reference value for STP microorganisms | | | | VND | | |
| Valore di riferimento per i microorganismi STP | | | | VND | | |
| Health - Derived No Effect Level - DNEL / DMEL | | | | | | |
| | Effects on consumers | | | | | |
| Route of Exposure | Acute local | Acute systemic | | Chronic local | | Systemic chronic |
| Oral | | | | VND | | 125 mg/kg bw/d |
| Inhalation | | | | VND | | 185 mg/m3 |
| Dermal | | | | VND | | 125 mg/kg bw/d |
| | Effects on Workers | | | | | |
| Route of Exposure | Acute local | Acute systemic | | Chronic local | | Systemic chronic |
| Inhalation | | | | VND | | 871 mg/m3 |
| Dermial | | | | VND | | 208 mg/kg bw/d |

(2-methoxyethoxy)propanol

Threshold Limit Value

| Type | State | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 270 | 43,74 | 550 | 89,1 | SKIN |
| AGW | DEU | 310 | 50 | 310 | 50 | |
| MAK | DEU | 310 | 50 | 310 | 50 | |
| TLV | DNK | 309 | 50 | | | SKIN E |
| VLA | ESP | 308 | 50 | | | SKIN |
| VLEP | FRA | 308 | 50 | | | SKIN |
| HTP | FIN | 310 | 50 | | | SKIN |
| TLV | GRC | 600 | 100 | 900 | 150 | |
| AK | HUN | 308 | | | | |
| GVI/KGVI | HRV | 308 | 50 | | | SKIN |
| VLEP | ITA | 300 | 50 | | | SKIN E |
| TLV | NOR | 300 | 50 | | | SKIN |
| TGG | NLD | 300 | | | | |
| VLE | PRT | 308 | 50 | | | SKIN |
| NDS/NDSCh | POL | 240 | 480 | | | SKIN |
| TLV | ROU | 308 | 50 | | | SKIN |
| NGV/KGV | SWE | 300 | 50 | 450 (C) | 75 (C) | SKIN |
| NPEL | SVK | 308 | 50 | | | SKIN |
| MV | SVN | 308 | 50 | | | SKIN |
| ESD | TUR | 308 | 50 | | | SKIN |
| WEL | GBR | 308 | 50 | | | SKIN |
| OEL | EU | 308 | 50 | | | SKIN |

| Predicted No Effect Concentration (PNEC) | | |
|---|---|---|
| Freshwater reference value | 19 | mg/l |
| Marine water reference value | 1,9 | mg/l |
| Freshwater sediment reference value | 70,2 | mg/kg |
| Marine sediment reference value | 7,02 | mg/kg |
| Water reference value, intermittent release | 190 | mg/l |
| STP microorganism reference value | 4168 | mg/l |
| Terrestrial compartment reference value | 2,74 | mg/kg |

Effects on consumers

| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
|---|---|---|---|---|
| Oral | | | VND | 36 mg/kg bw/d |
| Inahalation | | | VND | 37,2 mg/m3 |
| Dermal | | | VND | 121 mg/kg bw/d |

Effects on Workers

| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
|---|---|---|---|---|
| Inhalation | | | VND | 308 mg/m3 |
| Dermal | | | VND | 283 mg/kg bw/d |

ETHYL SILICATE

Threshold Limit Value

| Type | State | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 50 | | 200 | | |
| AGW | DEU | 12 | 1,4 | 12 | 1,4 | |
| MAK | DEU | 86 | 10 | 86 | 10 | |
| TLV | DNK | 85 | 10 | | | |
| VLA | ESP | 87 | 10 | | | |
| VLEP | FRA | 85 | 10 | | | |
| HTP | FIN | 86 | 10 | 170 | 20 | |
| TLV | GRC | 170 | 20 | 255 | 30 | |
| TLV | NOR | 85 | 10 | | | SKIN |
| TGG | NLD | 10 | | | | |
| NDS/NDSCh | POL | 44 | | | | |
| TLV | ROU | 100 | | 200 | | |
| MV | SVN | 170 | 20 | 170 | 20 | |
| OEL | EU | 44 | 5 | | | |
| TLV-ACGIH | | 85 | 10 | | | |

| | | | | |
|---|---|---|---|---|
| Predicted no effect concentration – pnec | | | | |
| Reference Value in Freshwater | 0,192 mg/l | | | |
| Reference Value in Marine Water | 0,0192 mg/l | | | |
| Reference Value for Sediments in Freshwater | 0,18 mg/kg | | | |
| Reference Value for Sediments in Marine Water | 0,018 mg/kg | | | |
| Reference Value for Water, Intermittent Release | 10 mg/l | | | |
| Reference Value for STP Microorganisms | 4000 mg/l | | | |
| Reference Value for Terrestrial Compartment | 0,05 mg/kg | | | |
| Health – Derived No-Effect Level – DNEL / DMEL | | | | |
| Effects on consumers | | | | |
| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
| Oral | | | | |
| Inhalation | 25 mg/m3 | 25 mg/m3 | 25 mg/m3 | 25 mg/m3 |
| Dermal | VND | 8,4 mg/kg bw/d | VND | 8,4 mg/kg |
| Effects on workers | | | | |
| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
| Inhalation | 85 mg/m3 | 85 mg/m3 | 85 mg/m3 | 85 mg/m3 |
| Dermal | VND | 12,1 mg/kg bw/d | VND | 12,1 mg/kg bw/d |

METHANOL

| Threshold Limit Value | | | | | | |
|---|---|---|---|---|---|---|
| Type | State | TWA/8h | | STEL/15min | | Remarks /Observations |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 250 | 187,55 | 1000 | 751 | SKIN |
| AGW | DEU | 270 | 200 | 1080 | 800 | SKIN |
| MAK | DEU | 130 | 100 | 260 | 200 | SKIN |
| TLV | DNK | 260 | 200 | | | SKIN E |
| VLA | ESP | 266 | 200 | | | SKIN |
| VLEP | FRA | 260 | 200 | 1300 | 1000 | SKIN |
| HTP | FIN | 270 | 200 | 3300 | 250 | SKIN |
| TLV | GRC | 260 | 200 | 325 | 250 | |
| AK | HUN | 260 | | 325 | | SKIN |
| GVI/KGVI | HRV | 260 | 200 | | | SKIN |
| VLEP | ITA | 260 | 200 | | | SKIN 11 |
| TLV | NOR | 130 | 100 | | | SKIN |
| TGG | NLD | 133 | | | | |
| VLE | PRT | 260 | 200 | | | SKIN |
| NDS/NDSCh | POL | 100 | | 300 | | SKIN |
| TLV | ROU | 260 | 200 | | | SKIN |
| NGV/KGV | SWE | 250 | 200 | 350(C) | 75 (C) | SKIN |
| NPEL | SVK | 260 | 200 | | | SKIN |
| MV | SVN | 260 | 200 | 1040 | | SKIN |
| ESD | TUR | 260 | 200 | | | SKIN |
| WEL | GBR | 266 | 200 | 333 | | SKIN |
| OEL | EU | 260 | 200 | | | SKIN |
| TLV-ACGIH | | 262 | 200 | 328 | 250 | SKIN |

| | | | | |
|---|---|---|---|---|
| Predicted No Effect Concentration – PNEC | | | | |
| Reference Value in Freshwater | 20,8 mg/l | | | |
| Reference Value in Marine Water | 2,08 mg/l | | | |
| Reference Value for Sediments in Freshwater | 77 mg/kg | | | |
| Reference Value for Sediments in Marine Water | 7,7 mg/kg | | | |
| Reference Value for Water, Intermittent Release | 1540 mg/l | | | |
| Reference Value for STP Microorganisms | 100 mg/l | | | |
| Reference Value for Terrestrial Compartment | 100 mg/kg | | | |
| Health – Derived No-Effect Level – DNEL / DMEL | | | | |
| Effects on consumers | | | | |
| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
| Oral | | 8 mg/kg bw/d | | 8 mg/kg bw/d |
| Inhalation | 50 mg/m3 | 50 mg/m3 | 50 mg/m3 | 50 mg/m3 |
| Dermal | | 8 mg/kg bw/d | | 8 mg/kg bw/d |
| Effects on workers | | | | |
| Route of Exposure | Acute local | Acute systemic | Chronic local | Systemic chronic |
| Inhalation | 260 mg/m3 | 260 mg/m3 | 260 mg/m3 | 260 mg/m3 |
| Dermal | | 40 mg/kg bw/d | 40 | 40 mg/kg bw/d |

**8.2 Exposure controls**

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace
through effective local exhaust ventilation. For the choice of personal protective equipment, ask advice, if necessary, from your chemical suppliers. Personal protective equipment must bear CE marking attesting to their compliance with applicable standards.
HAND PROTECTION
Protect hands with category III work gloves (ref. standard EN 374). The following should be considered when making the final choice of work glove material: compatibility, degradation, breakthrough time and permeation. In the case of preparations the resistance of work gloves to chemical agents must be verified before use in as it cannot be predicted. Gloves have a wear time that depends on the duration and mode of use.
SKIN PROTECTION
Wear long-sleeved work clothes and category II safety footwear for professional use (ref. Directive 89/686/EEC and EN ISO 20344). Wash with soap and water after removing clothing.
Consider providing antistatic clothing if the work environment presents an explosive hazard.
EYE PROTECTION.
It is advisable to wear airtight protective goggles (ref. standard EN 166).
RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with an AX-type filter, the limit of use of which will be defined by the manufacturer (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined type filters should be provided.
The use of respiratory protective means is necessary in case the technical measures taken are not sufficient to limit the worker's exposure to the threshold values taken into consideration.
However, the protection offered by masks is limited.
In case the substance under consideration is odorless or its odor threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit self-contained compressed-air breathing apparatus (ref standard EN 137) or an air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS.
Emissions from production processes, including those from ventilation equipment should be controlled for compliance with environmental protection regulations.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Liquid | Physical State |
| Color | colorless |
| Odor | Mild odor of hydrocarbon solvent |
| Melting or freezing point | not available |
| Initial boiling point | not available |
| Flammability | not available |
| Lower explosive limit | not available |
| Upper explosive limit | not available |
| Flash point | 40 °C |
| Auto-ignition temperature | not available |
| Decomposition temperature | not available |
| pH | not applicable |
| Kinematic viscosity | not available |
| Solubility | immiscible with water |

| | |
|---|---|
| Partition coefficient: n-octanol/water: | not available |
| Vapor pressure | not available |
| Density and/or Relative density | 0.78 kg/l |
| Relative vapor density | not available |
| Particle characteristics | not applicable |

**9.2. Other information**

**9.2.1. Information related to physical hazard classes**

Information not available

**9.2.2. Other safety characteristics**

VOC (Directive 2010/75/EU) 94.40 % - 736.32 g/liter
Explosive properties not applicable
Oxidizing properties not applicable

## 10 STABILITY AND REACTIVITY

**10.1 Thermal decomposition**

There are no particular hazards of reaction with other substances under normal conditions of use.

**10.2 Possibility of hazardous reactions**

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

**10.3 Incompatible materials**

No hazardous reactions are to be expected under normal conditions of use and storage.

**10.4 Hazardous decomposition products.**

None in particular. However, adhere to the usual precautions against chemicals.

**10.5 Incompatible materials**

Oxidizing agents. Strong acids and bases.

**10.6 Hazardous decomposition products.**

By thermal decomposition or in case of fire, gases and vapors may be released that are potentially harmful to health.

## 11 TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

Metabolism, kinetics, mechanism of action, and other information
1-METHYL-2-METHOXYETHYL ACETATE
Information not available
Information on likely routes of exposure
METHANOL
WORKERS: inhalation; skin contact.
POPULATION: Ingestion of contaminated food or water; skin contact of products containing the substance.
Immediate, delayed and and chronic effects from short- and long-term exposures
METHANOL
The minimum lethal dose to humans by ingestion is considered to be in the range of 300 to 1000 mg/kg.
Ingestion of 4 to 10 ml of the substance can cause permanent blindness (IPCS) in adult humans.

Interactive effects
Information not available
ACUTE TOXICITY
ATE (Inhalation) of the mixture: Not classified (no relevant component)
ATE (Oral) of the mixture: Not classified (no relevant component)
ATE (Dermal) of the mixture: Not classified (no relevant component)
C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS
LD50 (Dermal): > 2000 mg/kg rabbit OECD 402
LD50 (Oral): > 5000 mg/kg rat OECD 401
(2-methoxyethoxy) propanol
LD50 (Dermal): 2764 mg/kg rabbit
LD50 (Oral): 2410 mg/kg mouse male (fasted)
LC50 (Vapor Inhalation): > 29 ppm/1h 2h rat
ETHYL ETHYL SILICATE
LD50 (Oral): > 2500 mg/kg rat OECD 423
LC50 (Mist/dust inhalation): 10 mg/l/4h rat male OECD 403
LC50 (Vapor Inhalation): > 0.85 mg/l/4h rat OECD 403

SKIN CORROSION/DERMAL IRRITATION.
Repeated exposure may cause skin dryness and cracking.

SEVERE OCULAR DAMAGE/EYE IRRITATION.
Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITIZATION
Does not meet the classification criteria for this hazard class

Respiratory sensitization
Information not available

Skin sensitization
Information not available

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class.

CCARCINOGENICITY
Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility
Information not available
Adverse effects on progeny development
Information not available
Effects on or through lactation
Information not available

**11.2 Information on other hazards**

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

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS
LC50 - Fish > 1000 mg/l/96h Oncorhynchus mykiss
EC50 - Crustaceans 1000 mg/l/48h Daphnia magna
EC50 - Algae/Aquatic Plants > 1000 mg/l/72h NOELPseudokirchneriella subcapitata

(2-methoxyethoxy) propanol
LC50 - Fish 1300 mg/l/96h Lepomis machrochirus
EC50 - Crustaceans > 1919 mg/l/48h Daphnia magna
EC50 - Algae/Aquatic Plants > 969 mg/l/72h Scenedesmus subspicatus

ETHYL SILICATE
LC50 - Fish > 245 mg/l/96h Brachydanio rerio
EC50 - Crustaceans > 75 mg/l/48h Daphnia magna
EC50 - Algae/Aquatic Plants > 100 mg/l/72h Pseudokirchnerella subcapitata

### 12.2 Persistence and degradability

C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS
Rapidly degradable
80% 28d
(2-methoxyethoxy) propanol
Solubility in water 1000 - 10000 mg/l
Rapidly degradable
85% 28d
METHANOL
Solubility in water 1000 - 10000 mg/l
Rapidly degradable
ETHYL ETHYL SILICATE
Solubility in water 1000 - 10000 mg/l
Rapidly degradable
98% / 28 d

### 12.3 Bioaccumulative potential

(2-methoxyethoxy) propanol
Partition coefficient: n-octanol/water 0.056
METHANOL
Partition coefficient: n-octanol/water -0.77
BCF 0.2
ETHYL SILICATE Partition coefficient: n-octanol/water 3.18 BCF 3.16

### 12.4 Mobility in soil

Information not available

### 12.5 Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in a percentage ≥ 0.1%.

### 12.6 Endocrine Disrupting Properties.

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

### 12.7 Other adverse effects

Information not available

## 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.

## 14 TRANSPORT INFORMATION

### 14.1 Road and rail (ADR / RID)

ADR / RID, IMDG, IATA: 3925

### 14.2 Sea transport (IMO / IMDG)

ADR / RID: IDROCARBURI LIQUIDI, N.A.S. (ISODECANE AND n-DECANE)
IMDG: HYDROCARBONS, LIQUID, N.O.S. (ISODECANE AND n-DECANE)
IATA: HYDROCARBONS, LIQUID, N.O.S. (ISODECANE AND n-DECANE)

### 14.3 Transport hazard class(es)


ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

### 14.4 Internal navigation routes (ICAO / IATA)

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

### 14.6. Special precautions for user

| | | | |
|---|---|---|---|
| ADR / RID: | HIN - Kemler: 30 Restricted Special Provision: 640E | Quantities: LQ07 | Tunnel Restriction Code: (D/E) |
| IMDG: | EMS: F-E,S-E | Restricted Quantities: LQ07 | |
| IATA: | Cargo: | Maximum Quantity: 220L | Packing Instructions: 310 |
| | Pass: | Maximum quantity: 60L | Packing instruction: 309 |
| | Special layout: | A3 | |

### 14.7. Maritime transport in bulk in accordance with the IMO acts

Information not relevant

## 15 REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC: P5c
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 3 - 40
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
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2 Standards / laws specific to the substance or mixture in the field of safety, health and the environment

A chemical safety assessment was conducted for the following contained substances:
C9-C11 HYDROCARBONS, N ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

## 16 OTHER INFORMATIONS

Text of the hazard statements (H) cited in Sections 2-3 of the sheet:
Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 3 Acute toxicity, category 3
STOT SE 1 Specific target organ toxicity - single exposure, category 1
Asp. Tox. 1 Aspiration hazard, category 1
Eye Irrit. 2 Eye irritation, category 2
STOT SE 3 Specific target organ toxicity - single exposure, category 3
H225 Highly flammable liquid and vapors.
H226 Flammable liquid and vapors.
H301 Toxic if ingested.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H370 Causes damage to organs.
H304 May be fatal if swallowed and enters respiratory tract.
H319 Causes severe eye irritation.
H335 May irritate respiratory tract.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause dry or cracked skin.

LEGEND:
- ADR: European Agreement for the Transport of Dangerous Goods by Road
- CAS: Chemical Abstract Service number
- EC: Identification number in ESIS (European Database of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived no-effect level
- EC50: Concentration giving effect to 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally harmonized system for the classification and labeling of chemicals
- IATA DGR: Dangerous Goods Regulations of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the population subject to testing
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the International Carriage of Dangerous Goods by Rail
- STA: Estimated Acute Toxicity
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any time of work exposure.
- TWA: Weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:
1. Regulation (EC) 1907/2006 of the European Parliament (REACH).
2. Regulation (EC) 1272/2008 of the European Parliament (CLP).
3. Regulation (EU) 2020/878 (All. II REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
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 (EU) 2018/1480 (XIII Atp. CLP).
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 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 Agency Website
- Database of model SDSs of chemical substances - Ministry of Health and National Institute of Health.

Note to the user:
The information contained in this sheet is based on the knowledge available to us as of the date of the latest version. The user should ensure the suitability and completeness of the information in relation to the specific use of the product.
This document should not be construed as a guarantee of any specific properties of the product.
Since the use of the product does not fall under our direct control, it is the user`s obligation to observe under his or her own responsibility the applicable laws and regulations on hygiene and safety. We assume no responsibility for improper use.
Provide adequate training to personnel involved in the use of chemicals.
This MSDS has been prepared by a competent technician who has received appropriate training.
CLASSIFICATION CALCULATION METHODS
Chemical physical hazards: The classification of the product was derived from the criteria set forth in the CLP Regulation Annex I Part 2. The methods for evaluating chemical physical properties are given in Section 9.
Health Hazards: The classification of the product is based on the calculation methods in CLP Annex I Part 3, unless otherwise stated in Section 11.
Environmental Hazards: The classification of the product is based on the calculation methods given in Annex I of CLP Part 4, unless otherwise stated in section 12.

**BeriCalce S.r.l.**
Via Piave, 23 - 36033 Isola Vicentina (VI)
Tel./Fax (+39) 0444 929102 - Tel. (+39) 0444 654919
Skype: bericalce - info@bericalce.com
bericalce.com



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