

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

### 1.1. Product identifier

Code: 0430201P  
Product name: SYNTECH FLEXIPUR COMP.A  
UFI: 1AQ0-H0YC-000U-NNMN

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

Intended use: Two-component polyurethane elastomeric coating with glossy finish

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

Name: AZICHEM SRL  
Full address: Via G. Gentile 16/A  
District and Country: 46044 Goito (Mantova) Italia  
Tel.: 0376604185  
e-mail address of the competent person responsible for the Safety Data Sheet: laboratorio@azichem.com

### 1.4. Emergency telephone number

For urgent inquiries refer to:  
Osp. Pediatrico Bambino Gesù ROMA: 06 68593726  
Az. Osp. Univ. Foggia FOGGIA: 800183459  
Az. Osp. "A. Cardarelli" NAPOLI: 081-5453333  
Policlinico "Umberto I" ROMA: 06-49978000  
Policlinico "A. Gemelli" ROMA: 06-3054343  
Az. Osp. "Careggi" U.O. Tossicologia Medica FIRENZE: 055-7947819  
Centro Nazionale di Informazione Tossicologica PAVIA: 0382-24444  
Osp. Niguarda Ca' Granda MILANO: 02-66101029  
Azienda Ospedaliera Papa Giovanni XXII BERGAMO: 800883300  
Azienda Ospedaliera Integrata VERONA: 800011858

## 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:

|                                                                    |      |                                                    |
|--------------------------------------------------------------------|------|----------------------------------------------------|
| Flammable liquid, category 3                                       | H226 | Flammable liquid and vapour.                       |
| Aspiration hazard, 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.                 |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

### 2.2. Label elements

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

Hazard pictograms:



## SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

**H226** Flammable liquid and vapour.  
**H304** May be fatal if swallowed and enters airways.  
**H336** May cause drowsiness or dizziness.  
**H412** Harmful to aquatic life with long lasting effects.  
**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.  
**P331** Do NOT induce vomiting.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER / doctor / . . .  
**P370+P378** In case of fire: use . . . to extinguish.  
**P261** Avoid breathing dust / fume / gas / mist / vapours / spray.

**Contains:** XYLENE  
1-METHOXY-2-PROPANOL  
N-BUTYL ACETATE  
HYDROCARBONS, C9, AROMATIC

### 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>1-METHOXY-2-PROPANOL</b>            |                    |                                                                                                                                                                                                                                                              |
| INDEX 603-064-00-3                     | $12 \leq x < 13,5$ | Flam. Liq. 3 H226, STOT SE 3 H336                                                                                                                                                                                                                            |
| EC 203-539-1                           |                    |                                                                                                                                                                                                                                                              |
| CAS 107-98-2                           |                    |                                                                                                                                                                                                                                                              |
| <b>N-BUTYL ACETATE</b>                 |                    |                                                                                                                                                                                                                                                              |
| INDEX 607-025-00-1                     | $8,5 \leq x < 10$  | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066                                                                                                                                                                                                                    |
| EC 204-658-1                           |                    |                                                                                                                                                                                                                                                              |
| CAS 123-86-4                           |                    |                                                                                                                                                                                                                                                              |
| <b>XYLENE</b>                          |                    |                                                                                                                                                                                                                                                              |
| INDEX 601-022-00-9                     | $6 \leq x < 7$     | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C<br>ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l |
| EC 215-535-7                           |                    |                                                                                                                                                                                                                                                              |
| CAS 1330-20-7                          |                    |                                                                                                                                                                                                                                                              |
| <b>HYDROCARBONS, C9, AROMATIC</b>      |                    |                                                                                                                                                                                                                                                              |
| INDEX                                  | $6 \leq x < 7$     | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066                                                                                                                                                          |
| EC 918-668-5                           |                    |                                                                                                                                                                                                                                                              |
| CAS 128601-23-0                        |                    |                                                                                                                                                                                                                                                              |
| REACH Reg. 01-2119455851-35-xxxx       |                    |                                                                                                                                                                                                                                                              |
| <b>2-METHOXY-1-METHYLETHYL ACETATE</b> |                    |                                                                                                                                                                                                                                                              |
| INDEX 607-195-00-7                     | $2 \leq x < 2,5$   | Flam. Liq. 3 H226                                                                                                                                                                                                                                            |
| EC 203-603-9                           |                    |                                                                                                                                                                                                                                                              |
| CAS 108-65-6                           |                    |                                                                                                                                                                                                                                                              |

**SECTION 3. Composition/information on ingredients** ... / >>**BUTANE-1,4-DIOL**

INDEX

 $2 \leq x < 2,5$ **Acute Tox. 4 H302, STOT SE 3 H336**

EC 203-786-5

**LD50 Oral: 1500 mg/kg**

CAS 110-63-4

REACH Reg. 01-2119471849-20-XXXX

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

**SECTION 4. First aid measures****4.1. Description of first aid measures**

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF SWALLOWED: Immediately call a POISON CENTER / doctor / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**SECTION 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 prevent explosions.

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

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF 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

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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

## 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

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 water 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.

## SECTION 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. 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.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheltered from moisture because it hydrolyses easily.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

|     |             |                                                                                                                                                                                                                                                                                                                                                       |
|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.28 от 2 Април 2024г.)                                                                                                                                                                                         |
| DEU | Deutschland | WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe                                                                                                                                                                                                                              |
| ESP | España      | Límites de exposición profesional para agentes químicos en España 2024                                                                                                                                                                                                                                                                                |
| FRA | France      | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                                                                                    |
| 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"» |

## SECTION 8. Exposure controls/personal protection ... / >>

|     |                |                                                                                                                                                                                                                                                                                            |
|-----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                        |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                    |
| PRT | Portugal       | Decreto-Lei n.º 102/2024, de 4 de dezembro. Sumário: Transpõe para a ordem jurídica interna a Diretiva (UE) 2022/431, relativa à proteção dos trabalhadores contra riscos ligados à exposição a agentes cancerígenos ou mutagénicos e procede à quarta alteração                           |
| POL | Polska         | ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                               |
| ROU | România        | HOTĂRÂRE nr. 179 din 28 februarie 2024 pentru modificarea și completarea Hotărârii Guvernului nr. 1.093/2006 privind stabilirea cerințelor minime de securitate și sănătate pentru protecția lucrătorilor împotriva riscurilor legate de expunerea la agenți ca                            |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                  |
| EU  | OEL EU         | Directive (EU) 2022/431; 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. |
|     | ACGIH          | ACGIH 2025                                                                                                                                                                                                                                                                                 |

### N-BUTYL ACETATE

| Threshold Limit Value |         |        |     |            |         |                        |
|-----------------------|---------|--------|-----|------------|---------|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |         | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm     |                        |
| TLV                   | BGR     | 710    |     | 950        |         |                        |
| AGW                   | DEU     | 300    | 62  | 600 (C)    | 124 (C) |                        |
| VLA                   | ESP     | 241    | 50  | 724        | 150     |                        |
| VLEP                  | FRA     | 710    | 150 | 940        | 200     |                        |
| TLV                   | GRC     | 710    | 150 | 950        | 200     |                        |
| AK                    | HUN     | 241    |     | 723        |         |                        |
| VLEP                  | ITA     | 241    | 50  | 723        | 150     |                        |
| VLE                   | PRT     | 241    | 50  | 723        | 150     |                        |
| NDS/NDSch             | POL     | 240    |     | 720        |         |                        |
| TLV                   | ROU     | 241    | 50  | 723        | 150     |                        |
| WEL                   | GBR     | 724    | 150 | 966        | 200     |                        |
| OEL                   | EU      | 241    | 50  | 723        | 150     |                        |
| ACGIH                 |         |        | 50  |            | 150     |                        |

### XYLENE

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV                   | BGR     | 221    | 50  | 442        | 100 | SKIN                   |
| AGW                   | DEU     | 440    | 100 | 880        | 200 | SKIN                   |
| MAK                   | DEU     | 440    | 100 | 880        | 200 | SKIN                   |
| VLA                   | ESP     | 221    | 50  | 442        | 100 | SKIN                   |
| VLEP                  | FRA     | 221    | 50  | 442        | 100 | SKIN                   |
| TLV                   | GRC     | 435    | 100 | 650        | 150 |                        |
| AK                    | HUN     | 221    |     | 442        |     | SKIN                   |
| VLEP                  | ITA     | 221    | 50  | 442        | 100 | SKIN                   |
| VLE                   | PRT     | 221    | 50  | 442        | 100 | SKIN                   |
| NDS/NDSch             | POL     | 100    |     | 200        |     | SKIN                   |
| TLV                   | ROU     | 221    | 50  | 442        | 100 | SKIN                   |
| WEL                   | GBR     | 220    | 50  | 441        | 100 | SKIN                   |
| OEL                   | EU      | 221    | 50  | 442        | 100 | SKIN                   |
| ACGIH                 |         |        | 20  |            |     |                        |

## SECTION 8. Exposure controls/personal protection ... / >>

### 1-METHOXY-2-PROPANOL

#### Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 375    | 100 | 568        | 150 | SKIN                   |
| AGW       | DEU     | 370    | 100 | 740        | 200 |                        |
| MAK       | DEU     | 370    | 100 | 740        | 200 |                        |
| VLA       | ESP     | 375    | 100 | 568        | 150 | SKIN                   |
| VLEP      | FRA     | 188    | 50  | 375        | 100 | SKIN                   |
| TLV       | GRC     | 360    | 100 | 1080       | 300 |                        |
| AK        | HUN     | 375    |     | 568        |     | SKIN                   |
| VLEP      | ITA     | 375    | 100 | 568        | 150 | SKIN                   |
| VLE       | PRT     | 375    | 100 | 568        | 150 |                        |
| NDS/NDSch | POL     | 180    |     | 360        |     | SKIN                   |
| TLV       | ROU     | 375    | 100 | 568        | 150 | SKIN                   |
| WEL       | GBR     | 375    | 100 | 560        | 150 | SKIN                   |
| OEL       | EU      | 375    | 100 | 568        | 150 | SKIN                   |
| ACGIH     |         | 184    | 50  | 368        | 100 |                        |

### 2-METHOXY-1-METHYLETHYL ACETATE

#### Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 275    | 50  | 550        | 100 | SKIN                   |
| AGW       | DEU     | 270    | 50  | 270        | 50  |                        |
| MAK       | DEU     | 270    | 50  | 270        | 50  |                        |
| VLA       | ESP     | 275    | 50  | 550        | 100 | SKIN                   |
| VLEP      | FRA     | 275    | 50  | 550        | 100 | SKIN                   |
| TLV       | GRC     | 275    | 50  | 550        | 100 |                        |
| AK        | HUN     | 275    | 50  | 550        | 100 |                        |
| VLEP      | ITA     | 275    | 50  | 550        | 100 | SKIN                   |
| VLE       | PRT     | 275    | 50  | 550        | 100 | SKIN                   |
| NDS/NDSch | POL     | 260    |     | 520        |     | SKIN                   |
| TLV       | ROU     | 275    | 50  | 550        | 100 | SKIN                   |
| WEL       | GBR     | 274    | 50  | 548        | 100 | SKIN                   |
| OEL       | EU      | 275    | 50  | 550        | 100 | SKIN                   |

### BUTANE-1,4-DIOL

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

| Route of exposure | Effects on consumers |              | Chronic | Chronic         | Effects on workers |              |         |                     |
|-------------------|----------------------|--------------|---------|-----------------|--------------------|--------------|---------|---------------------|
|                   | Acute                | Acute        |         |                 | Acute local        | Acute        | Chronic | Chronic             |
|                   | local                | systemic     | local   | systemic        |                    | systemic     | local   | systemic            |
| Oral              |                      |              |         | 8<br>mg/kg bw/d |                    |              |         |                     |
| Inhalation        |                      | 340<br>mg/m3 |         | 29<br>mg/m3     |                    | 958<br>mg/m3 |         | 136<br>mg/m3        |
| Skin              |                      |              |         | 8<br>mg/kg bw/d |                    |              |         | 19<br>mg/kg<br>bw/d |

### HYDROCARBONS, C9, AROMATIC

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

| Route of exposure | Effects on consumers |          | Chronic | Chronic           | Effects on workers |          |         |                       |
|-------------------|----------------------|----------|---------|-------------------|--------------------|----------|---------|-----------------------|
|                   | Acute                | Acute    |         |                   | Acute local        | Acute    | Chronic | Chronic               |
|                   | local                | systemic | local   | systemic          |                    | systemic | local   | systemic              |
| Oral              |                      |          |         | 7,5<br>mg/kg bw/d |                    |          |         |                       |
| Inhalation        |                      |          |         | 32<br>mg/m3       |                    |          |         | 151<br>mg/m3          |
| Skin              |                      |          |         | 7,5<br>mg/kg bw/d |                    |          |         | 12,5<br>mg/kg<br>bw/d |

#### 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.

## SECTION 8. Exposure controls/personal protection ... / >>

### 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

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

#### RESPIRATORY PROTECTION

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. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

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

| Properties                             | Value              | Information        |
|----------------------------------------|--------------------|--------------------|
| Appearance                             | liquid             |                    |
| Colour                                 | various            |                    |
| Odour                                  | characteristic     |                    |
| Melting point / freezing point         | not available      |                    |
| Initial boiling point                  | 130 °C             |                    |
| Flammability                           | flammable liquid   |                    |
| Lower explosive limit                  | not available      |                    |
| Upper explosive limit                  | not available      |                    |
| Flash point                            | 30 °C              |                    |
| Auto-ignition temperature              | 330 °C             |                    |
| Decomposition temperature              | not available      |                    |
| pH                                     | not available      |                    |
| Kinematic viscosity                    | 20,5               | Temperature: 40 °C |
| Solubility                             | insoluble in water |                    |
| Partition coefficient: n-octanol/water | not available      |                    |
| Vapour pressure                        | not available      |                    |
| Density and/or relative density        | 1,1 - 1,4 g/cm3    |                    |
| Relative vapour density                | not available      |                    |
| 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) 38,95 % - 486,88 g/litre

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

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

#### N-BUTYL ACETATE

Decomposes on contact with: water.

#### 1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

#### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

#### XYLENE

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

#### 2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

#### 1-METHOXY-2-PROPANOL

Avoid exposure to: air.

### 10.5. Incompatible materials

#### N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

#### 1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

#### 2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

#### BUTANE-1,4-DIOL

Strong oxidizing agents, amines, caustics, isocyanates, strong acids.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### BUTANE-1,4-DIOL

Carbon oxides, tetrahydrofuran.

## SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

## SECTION 11. Toxicological information ... / >>

### 2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

#### Information on likely routes of exposure

#### 1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

#### N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

#### XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

### 2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

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

#### 1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies.

Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

#### N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

#### XYLENE

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### 2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies.

Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

#### Interactive effects

#### N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

#### XYLENE

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

|                                            |             |
|--------------------------------------------|-------------|
| ATE (Inhalation - vapours) of the mixture: | > 20 mg/l   |
| ATE (Oral) of the mixture:                 | >2000 mg/kg |
| ATE (Dermal) of the mixture:               | >2000 mg/kg |

#### 1-METHOXY-2-PROPANOL

|                            |                    |
|----------------------------|--------------------|
| LD50 (Dermal):             | 13000 mg/kg Rabbit |
| LD50 (Oral):               | 5300 mg/kg Rat     |
| LC50 (Inhalation vapours): | 54,6 mg/l/4h Rat   |

## SECTION 11. Toxicological information ... / >>

### N-BUTYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rabbit  
LD50 (Oral): > 6400 mg/kg Rat  
LC50 (Inhalation vapours): 21,1 mg/l/4h Rat

### XYLENE

LD50 (Dermal): 4350 mg/kg Rabbit  
ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)  
LD50 (Oral): 3523 mg/kg Rat  
LC50 (Inhalation vapours): 26 mg/l/4h Rat  
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

### HYDROCARBONS, C9, AROMATIC

LD50 (Dermal): > 3160 mg/kg Rabbit (equivalente o similare a OECD 402)

Method: study report (1977)

Reliability (Klimisch score): 2

Species: Rat (Charles River CD; Male/Female)

Routes of exposure: oral

Results: LD50 (female) = 3492 mg/kg; LD50 (male)= 6984mg/kg

Method: equivalent or similar to OECD 403

Reliability (Klimisch score): 1

Species: Rat (Crl: CDBR; Male/Female)

Routes of exposure: inhalation (vapours)

Results: LC50 > 6193 mg/m3 4h

Method: equivalent or similar to OECD 402

Reliability (Klimisch score): 2

Species: rabbit (New Zealand White; Male/Female)

Routes of exposure: dermal

Results: LD50 > 3160 mg/kg.

### 2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat  
LD50 (Oral): 8530 mg/kg Rat

### BUTANE-1,4-DIOL

LD50 (Dermal): > 2000 mg/kg Rat Sprague-Dawley (BASF-internal standard)  
LD50 (Oral): 1500 mg/kg Rat Sprague-Dawley (equivalente o similare a OECD 401)  
LC50 (Inhalation mists/powders): 51 mg/l/4h Rat Wistar (OECD 403, Aerosol)

Method: comparable to OECD 401

Reliability (Klimisch score): 2

Species: Rat (Male/Female Sprague-Dawley)

Routes of exposure: oral

Results LD50: 1500 mg/kg

The substance is classified as acute oral toxicant Cat. 4

Method: OECD 403

Reliability (Klimisch score): 1

Species: Rat (Male/Female Wistar)

Routes of exposure: inhalation (aerosol)

LC50 results: > 5.1 mg/l 4h

Method: BASF

Reliability (Klimisch score): 2

Species: Rat (Male/Female Sprague-Dawley)

Routes of exposure: dermal

LD50 results: > 2000 mg/kg.

## SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

## SECTION 11. Toxicological information ... / >>

HYDROCARBONS, C9, AROMATIC

Method: OECD 404

Reliability (Klimisch score): 1

Species: rabbit (New Zealand White)

Routes of exposure: dermal

Results: non-irritating

BUTANE-1,4-DIOL

Bibliographic reference: Acute toxicity of 1,4-butanediol in laboratory animals. (Polish Journal of Occupational Medicine 3, (4), 415 - 420 (1990))

Reliability (Klimisch score): 2

Species: rabbit (Vienna White)

Results: non-irritating.

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9, AROMATIC

Method: equivalent or similar to OECD 405

Reliability (Klimisch score): 1

Species: rabbit (New Zealand White)

Routes of exposure: ocular

Results: non-irritating.

BUTANE-1,4-DIOL

Bibliographic reference: Acute toxicity of 1,4-butanediol in laboratory animals. (Polish Journal of Occupational Medicine 3, (4), 415 - 420 (1990))

Reliability (Klimisch score): 2

Species: White rabbit (New Zealand)

Results: non-irritating.

### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### Skin sensitization

HYDROCARBONS, C9, AROMATIC

Method: OECD 406

Reliability (Klimisch score): 1

Species: guinea pig

Routes of exposure: dermal

Results: non-sensitizing

BUTANE-1,4-DIOL

Bibliographic reference: Acute toxicity of 1,4-butanediol in laboratory animals. (Polish Journal of Occupational Medicine 3, (4) 415 - 420 (1990))

Reliability (Klimisch score): 2

Species: Guinea Pig (Hartley Male/Female)

Results: non-sensitizing.

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9, AROMATIC

Method: equivalent or similar to OECD 471 - in vitro test

Reliability (Klimisch score): 1

Species: S. typhimurium

Results: negative with and without metabolic activation

Method: equivalent or similar to OECD 475

Reliability (Klimisch score): 2

Species: Rat (Sprague-Dawley; Male/Female)

Routes of exposure: inhalation (vapours)

Results: negative

**SECTION 11. Toxicological information ... / >>****BUTANE-1,4-DIOL**

Method: OECD 473 - In vitro test

Reliability (Klimisch score): 1

In vitro tests

Species: Chinese hamster (lung fibroblasts)

Results: negative with metabolic activation - negative without metabolic activation

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**XYLENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

**HYDROCARBONS, C9, AROMATIC**

Based on available data, the substance does not have carcinogenic effects, therefore it is not classified for the relevant CLP hazard class.

**BUTANE-1,4-DIOL**

Method: NTP protocol, read across (γ-Butyrolactone)

Reliability (Klimisch score): 1

Species: Mouse (B6C3F1 Male/Female)

Routes of exposure: oral

Results: negative. NOAEL (carcinogenicity): 525 mg/kg body weight/day; LOAEL (toxicity): 262 mg/kg body weight/day

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**HYDROCARBONS, C9, AROMATIC**

Method: not indicated

Reliability (Klimisch score): 2

Species: Rat (Crj: CD(SD); Male/Female)

Routes of exposure: inhalation (vapours)

Results: negative

**Adverse effects on sexual function and fertility****BUTANE-1,4-DIOL**

Method: NTP protocol, read across (γ-Butyrolactone)

Reliability (Klimisch score): 1

Species: Mouse (B6C3F1 Male/Female)

Routes of exposure: oral

Results: negative. NOAEL (carcinogenicity): 525 mg/kg body weight/day; LOAEL (toxicity): 262 mg/kg body weight/day

**STOT - SINGLE EXPOSURE**

May cause drowsiness or dizziness

**HYDROCARBONS, C9, AROMATIC**

The substance presents specific toxicity effects for target organs for single exposure [respiratory tract and central nervous system] and is classified under the relevant CLP hazard class.

If inhaled, it may irritate the respiratory tract and may cause drowsiness and dizziness.

**BUTANE-1,4-DIOL**

Based on available data, the substance exhibits specific target organ toxicity effects for single exposure and is classified under the relevant CLP hazard class.

**Target organs****HYDROCARBONS, C9, AROMATIC**

Respiratory tract and central nervous system

**BUTANE-1,4-DIOL**

Central nervous system.

**Route of exposure**

**SECTION 11. Toxicological information ... / >>**

HYDROCARBONS, C9, AROMATIC  
Inhalation.

BUTANE-1,4-DIOL  
Inhalation.

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9, AROMATIC  
Method: equivalent or similar to OECD 408  
Reliability (Klimisch score): 2  
Species: Rat (Sprague-Dawley; Male/Female)  
Routes of exposure: oral  
Results: negative. NOAEL= 600 mg/kg-day.

Method: equivalent or similar to OECD 452  
Reliability (Klimisch score): 1  
Species: Rat (Wistar; Male/Female)  
Routes of exposure: inhalation (vapours)  
Results: negative. NOAEC (Male)= 1800 mg/m<sup>3</sup>. NOAEC Female)= 900 mg/m<sup>3</sup>

BUTANE-1,4-DIOL  
Method: NTP protocol  
Reliability (Klimisch score): 1  
Species: rat (Fischer 344 Male/Female)  
Routes of exposure: oral  
Results: negative. NOAEL: 225 mg/kg body weight/day

Method: equivalent or similar to OECD 412  
Reliability (Klimisch score): 2  
Species: rat (CrI:CD Male)  
Routes of exposure: inhalation (aerosol)  
Results: negative. NOEC: 1.1 mg/l

**ASPIRATION HAZARD**

Toxic for aspiration

HYDROCARBONS, C9, AROMATIC  
Based on available data, the substance is hazardous in case of aspiration and is classified under the relevant CLP hazard class.

BUTANE-1,4-DIOL  
There are no data available on the danger in case of aspiration.

**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**

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

**12.1. Toxicity**

HYDROCARBONS, C9, AROMATIC  
LL50 - Fish 9.2 mg/L/96h *Oncorhynchus mykiss* (OECD 203)  
EL50 - Crustaceans 3.2 mg/L/48h *Daphnia magna* (OECD 202)  
EbL50(Algae): 2.6 mg/L/72h *Pseudokirchneriella subcapitata* (OECD 201)  
Erl50(Algae): 2.9 mg/L/72h (*Pseudokirchneriella subcapitata*; OECD 201)

BUTANE-1,4-DIOL  
LC50 - for Fish > 30000 mg/l/96h *Pimephales promelas* (equivalente o similare a OECD 203)  
EC50 - for Crustacea 813 mg/l/48h *Daphnia magna* ( OECD 202)  
EC50 - for Algae / Aquatic Plants > 500 mg/l/72h *Scenedesmus subspicatus* (German standard DIN 38412 Part 9)  
Chronic NOEC for Crustacea > 85 mg/l/21d *Daphnia magna* ( OECD 211)

## SECTION 12. Ecological information ... / >>

### 12.2. Persistence and degradability

|                                 |                               |
|---------------------------------|-------------------------------|
| 1-METHOXY-2-PROPANOL            |                               |
| Solubility in water             | 1000 - 10000 mg/l             |
| Rapidly degradable              |                               |
| N-BUTYL ACETATE                 |                               |
| Solubility in water             | 1000 - 10000 mg/l             |
| XYLENE                          |                               |
| Solubility in water             | 100 - 1000 mg/l               |
| Rapidly degradable              |                               |
| HYDROCARBONS, C9, AROMATIC      |                               |
| Rapidly degradable              | 78% in 28 giorni (OECD 301 F) |
| 2-METHOXY-1-METHYLETHYL ACETATE |                               |
| Solubility in water             | > 10000 mg/l                  |
| Rapidly degradable              |                               |
| BUTANE-1,4-DIOL                 |                               |
| Rapidly degradable              | 100% in 14d (OECD 301 C)      |

### 12.3. Bioaccumulative potential

|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| 1-METHOXY-2-PROPANOL                   |                                                   |
| Partition coefficient: n-octanol/water | < 1                                               |
| N-BUTYL ACETATE                        |                                                   |
| Partition coefficient: n-octanol/water | 2,3                                               |
| BCF                                    | 15,3                                              |
| XYLENE                                 |                                                   |
| Partition coefficient: n-octanol/water | 3,12                                              |
| BCF                                    | 25,9                                              |
| 2-METHOXY-1-METHYLETHYL ACETATE        |                                                   |
| Partition coefficient: n-octanol/water | 1,2                                               |
| BUTANE-1,4-DIOL                        |                                                   |
| BCF                                    | 3,16 International Specialty Products, Inc. (ISP) |

### 12.4. Mobility in soil

|                                   |      |
|-----------------------------------|------|
| N-BUTYL ACETATE                   |      |
| Partition coefficient: soil/water | < 3  |
| XYLENE                            |      |
| Partition coefficient: soil/water | 2,73 |

### 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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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: UN 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L

Special provision: 163, 367, 650

Tunnel restriction code: (D/E)

IMDG: EMS: F-E, S-E

Limited Quantities: 5 L

IATA: Cargo:

Maximum quantity: 220 L

Passengers:

Maximum quantity: 60 L

Special provision:

A3, A72, A192

Packaging instructions: 366

Packaging instructions: 355

### 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

## SECTION 15. Regulatory information ... / >>

Seveso Category - Directive 2012/18/EU:

P5c

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

Product

Point 3 - 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

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. 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:

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                         |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2     |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H302</b>              | Harmful if swallowed.                                              |
| <b>H312</b>              | Harmful in contact with skin.                                      |
| <b>H332</b>              | Harmful if inhaled.                                                |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H373</b>              | May cause damage to organs through prolonged or repeated exposure. |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |
| <b>EUH066</b>            | 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: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)

**SECTION 16. Other information ... / >>**

- 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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 (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)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII 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

## SECTION 16. Other information ... / >>

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:

04 / 09 / 11 / 12 / 13 / 14 / 15.