

## OP1992G20 - OPACO POL. 1992 G20 - OPV202G20

## Safety Data Sheet

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

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

## 1.1. Product identifier

Code: OP1992G20  
Product name: OPACO POL. 1992 G20 - OPV202G20  
UFI : 27Q2-F0J4-P00Q-K8N1

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

Intended use: MATT POLYURETHANE

| Identified Uses      | Industrial | Professional | Consumer |
|----------------------|------------|--------------|----------|
| Product for painting | ✓          | -            | -        |

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

Name: KEMICAL SRL  
Full address: Via Dell'Artigianato, 2  
District and Country: 35010 Trebaseleghe (PD) Italia  
Tel.: +390499385648  
Fax: +390499385070  
e-mail address of the competent person responsible for the Safety Data Sheet: laboratorio@kemichal.it

## 1.4. Emergency telephone number

For urgent inquiries refer to: National Poisons Information Service DIAL 111

## 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 2                                   | H225  | Highly flammable liquid and vapour.                                |
| Reproductive toxicity, category 2                              | H361d | Suspected of damaging the unborn child.                            |
| Aspiration hazard, category 1                                  | H304  | May be fatal if swallowed and enters airways.                      |
| Specific target organ toxicity - repeated exposure, category 2 | H373  | May cause damage to organs through prolonged or repeated exposure. |
| Skin irritation, category 2                                    | H315  | Causes skin irritation.  |
| Specific target organ toxicity - single exposure, category 3   | H336  | May cause drowsiness or dizziness.                                 |

## 2.2. Label elements

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

Hazard pictograms:



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## SECTION 2. Hazards identification ... / &gt;&gt;

Signal words: Danger

Hazard statements:

**H225** Highly flammable liquid and vapour.  
**H361d** Suspected of damaging the unborn child.  
**H304** May be fatal if swallowed and enters airways.  
**H373** May cause damage to organs through prolonged or repeated exposure.  
**H315** Causes skin irritation.  
**H336** May cause drowsiness or dizziness.

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 (show label if possible).  
**P370+P378** In case of fire: use carbon dioxide, foam, dry chemical, water spray to extinguish. Do not use water directly on the flames.  
**P261** Avoid breathing mist / vapours / spray.

Contains:

TOLUENE  
 N-BUTYL ACETATE  
 Miscela reattiva di etilbenzene ,m-xilene p-xilene ( Benzene <0,01% )

Product not intended for uses provided for by Directive 2004/42/EC.

## 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

## 3.1. Substances

Information not relevant

## 3.2. Mixtures

Contains:

| Identification  | x = Conc. %           | Classification (EC) 1272/2008 (CLP) |   |
|---|-----------------------|-------------------------------------|---|
| <b>XYLENE (MIXTURE OF ISOMERS)</b>  |                       |                                     |   |
| INDEX   | 601-022-00-9          | 20 ≤ x < 22,5                       | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,<br>Classification note according to Annex VI to the CLP Regulation: C<br>STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l |
| EC  | 215-535-7             |                                     |   |
| CAS   | 1330-20-7             |                                     |   |
| REACH Reg.  | 01-2119488216-32      |                                     |   |
| <b>TOLUENE</b>  |                       |                                     |   |
| INDEX   | 601-021-00-3          | 14,5 ≤ x < 16                       | Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336  |
| EC  | 203-625-9             |                                     |   |
| CAS   | 108-88-3              |                                     |   |
| REACH Reg.  | 01-2119471310-51      |                                     |   |
| <b>N-BUTYL ACETATE</b>  |                       |                                     |   |
| INDEX   | 607-025-00-1          | 13 ≤ x < 14,5                       | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066   |
| EC  | 204-658-1             |                                     |   |
| CAS   | 123-86-4              |                                     |   |
| REACH Reg.  | 01-2119485493-29      |                                     |   |
| <b>Miscela reattiva di etilbenzene ,m-xilene p-xilene ( Benzene &lt;0,01% )</b> |                       |                                     |   |
| INDEX   |                       | 7 ≤ x < 8                           | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335<br>STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l   |
| EC  | 905-562-9             |                                     |   |
| CAS   |                       |                                     |   |
| REACH Reg.  | 01-2119555267-33-XXXX |                                     |   |

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## SECTION 3. Composition/information on ingredients ... / &gt;&gt;

## ETHYL ACETATE

INDEX 607-022-00-5 0,9 ≤ x &lt; 1

EC 205-500-4

CAS 141-78-6

REACH Reg. 01-2119475103-46

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

## SECTION 5. Firefighting measures

## 5.1. Extinguishing media

## SUITABLE EXTINGUISHING EQUIPMENT

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.

|  |                |  |
|--|----------------|--|
| <div>KEMICHAL SRL</div> <div>OP1992G20 - OPACO POL. 1992 G20 - OPV202G20</div>   |                | <div>Revision nr.20<br/>Dated 08/06/2023<br/>Printed on 08/06/2023<br/>Page n. 4 / 15<br/>Replaced revision:19 (Dated 06/05/2021)</div> <div>EN</div>  |
| SECTION 6. Accidental release measures ... / >>  |                |  |
| 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.<br>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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic 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  |                |  |
| 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.5 от 17 Януари 2020г.)   |
| ESP  | España         | Límites de exposición profesional para agentes químicos en España 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 μεταλλαξιογόνους παράγοντες κατά την εργασία"» |
| ITA  | Italia         | Decreto Legislativo 9 Aprile 2008, n.81  |
| LTU  | Lietuva        | Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo  |
| 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 și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006  |
| 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         | 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.   |
|  | TLV-ACGIH      | ACGIH 2022   |

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## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## XYLENE (MIXTURE OF ISOMERS)

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 221    | 50  | 442        | 100 | SKIN                   |
| VLA       | ESP     | 221    | 50  | 442        | 100 | SKIN                   |
| TLV       | GRC     | 435    | 100 | 650        | 150 |                        |
| VLEP      | ITA     | 221    | 50  | 442        | 100 | SKIN                   |
| RD        | LTU     | 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                   |
| ESD       | TUR     | 221    | 50  | 442        | 100 | SKIN                   |
| WEL       | GBR     | 220    | 50  | 441        | 100 | SKIN                   |
| OEL       | EU      | 221    | 50  | 442        | 100 | SKIN                   |
| TLV-ACGIH |         |        | 20  |            |     |                        |

## POLYSILOXANES

## Threshold Limit Value

| Type | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|------|---------|--------|-----|------------|-----|------------------------|
|      |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV  | ROU     | 200    |     | 300        |     | SKIN                   |

## TOLUENE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 192    | 50  | 384        | 100 | SKIN                   |
| VLA       | ESP     | 192    | 50  | 384        | 100 | SKIN                   |
| TLV       | GRC     | 192    | 50  | 384        | 100 |                        |
| VLEP      | ITA     | 192    | 50  |            |     | SKIN                   |
| RD        | LTU     | 192    | 50  | 384        | 100 | SKIN                   |
| VLE       | PRT     | 192    | 50  | 384        | 100 | SKIN                   |
| NDS/NDSch | POL     | 100    |     | 200        |     | SKIN                   |
| TLV       | ROU     | 192    | 50  | 384        | 100 | SKIN                   |
| ESD       | TUR     | 192    | 50  | 384        | 100 | SKIN                   |
| WEL       | GBR     | 191    | 50  | 384        | 100 | SKIN                   |
| OEL       | EU      | 192    | 50  | 384        | 100 | SKIN                   |
| TLV-ACGIH |         |        | 20  |            |     |                        |

## PROPAN-2-OL

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 980    |     | 1225       |     |                        |
| VLA       | ESP     | 500    | 200 | 1000       | 400 |                        |
| TLV       | GRC     | 980    | 400 | 1225       | 500 |                        |
| RD        | LTU     | 350    | 150 | 600        | 250 |                        |
| NDS/NDSch | POL     | 900    |     | 1200       |     | SKIN                   |
| TLV       | ROU     | 200    | 81  | 500        | 203 |                        |
| WEL       | GBR     | 999    | 400 | 1250       | 500 |                        |
| TLV-ACGIH |         | 492    | 200 | 983        | 400 |                        |

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## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## ETHYL ACETATE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |         | Remarks / Observations |
|-----------|---------|--------|-----|------------|---------|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm     |                        |
| TLV       | BGR     | 734    | 200 | 1468       | 400     |                        |
| VLA       | ESP     | 734    | 200 | 1468       | 400     |                        |
| TLV       | GRC     | 734    | 200 | 1468       | 400     |                        |
| VLEP      | ITA     | 734    | 200 | 1468       | 400     |                        |
| RD        | LTU     | 500    | 150 | 1100 (C)   | 300 (C) |                        |
| VLE       | PRT     | 734    | 200 | 1468       | 400     |                        |
| NDS/NDSch | POL     | 734    |     | 1468       |         |                        |
| TLV       | ROU     | 734    | 200 | 1468       | 400     |                        |
| WEL       | GBR     | 734    | 200 | 1468       | 400     |                        |
| OEL       | EU      | 734    | 200 | 1468       | 400     |                        |
| TLV-ACGIH |         | 1441   | 400 |            |         |                        |

## N-BUTYL ACETATE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV       | BGR     | 710    |     | 950        |     |                        |
| VLA       | ESP     | 241    | 50  | 724        | 150 |                        |
| TLV       | GRC     | 710    | 150 | 950        | 200 |                        |
| VLEP      | ITA     | 241    | 50  | 723        | 150 |                        |
| RD        | LTU     | 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 |                        |
| TLV-ACGIH |         |        | 50  |            | 150 |                        |

## Miscela reattiva di etilbenzene ,m-xilene p-xilene ( Benzene &lt;0,01% )

## Predicted no-effect concentration - PNEC

|  |       |         |
|--|-------|---------|
| Normal value in fresh water                  | 327   | µg/L    |
| Normal value in marine water                 | 327   | µg/L    |
| Normal value for fresh water sediment        | 12,46 | mg/kg/d |
| Normal value for marine water sediment       | 12,46 | mg/kg/d |
| Normal value for water, intermittent release | 327   | µg/L    |
| Normal value of STP microorganisms           | 6,58  | mg/l    |

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

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic  | Effects on workers |                |               |                      |
|-------------------|----------------------|----------------|---------------|-------------------|--------------------|----------------|---------------|----------------------|
|                   | Acute local          | Acute systemic |               |                   | Acute local        | Acute systemic | Chronic local | Chronic systemic     |
| Oral              |                      |                |               | 1,6<br>mg/kg bw/d |                    |                |               |                      |
| Inhalation        |                      |                |               | 14,8<br>mg/m3     | 289<br>mg/m3       |                |               | 77<br>mg/m3          |
| Skin              |                      |                |               | 108<br>mg/kg bw/d |                    |                |               | 180<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.

## 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.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

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

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

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 II 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 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, 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). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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.

## SECTION 9. Physical and chemical properties

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

| Properties                             | Value                     | Information |
|--|---------------------------|-------------|
| Appearance                             | liquid                    |             |
| Colour                                 | straw-coloured            |             |
| Odour                                  | characteristic of solvent |             |
| Melting point / freezing point         | not available             |             |
| Initial boiling point                  | 139 °C                    |             |
| Flammability                           | not available             |             |
| Lower explosive limit                  | not available             |             |
| Upper explosive limit                  | not available             |             |
| Flash point                            | 18 °C                     |             |
| Auto-ignition temperature              | not available             |             |
| Decomposition temperature              | not available             |             |
| pH                                     | not available             |             |
| Temperature: 20 °C                     | 350 mm <sup>2</sup> /s    |             |
| Method: Brookfield (BSR)               | 350 mPas                  |             |
| Temperature: 20 °C                     |                           |             |
| Solubility                             | insoluble in water        |             |
| Partition coefficient: n-octanol/water | not available             |             |
| Vapour pressure                        | not available             |             |
| Temperature: 20 °C                     | 0,97 kg/l                 |             |
| Density 20 °C or relative density      |                           |             |
| 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

|                              |         |          |         |
|------------------------------|---------|----------|---------|
| Total solids (250°C / 482°F) | 41,64 % |          |         |
| VOC (Directive 2010/75/EU)   | 58,20 % | - 564,54 | g/litre |
| VOC (volatile carbon)        | 48,40 % | - 469,52 | g/litre |

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**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**TOLUENE**

Avoid exposure to: light.

**ETHYL ACETATE**

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

**N-BUTYL ACETATE**

Decomposes on contact with: water.

**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.

**XYLENE (MIXTURE OF ISOMERS)**

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

**TOLUENE**

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

**ETHYL ACETATE**

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: 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.

**10.4. Conditions to avoid**

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

**ETHYL ACETATE**

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

**N-BUTYL ACETATE**

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

**10.5. Incompatible materials****ETHYL ACETATE**

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

**N-BUTYL ACETATE**

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

**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.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure



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

### XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

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

### TOLUENE

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.

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

#### XYLENE (MIXTURE OF ISOMERS)

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

#### TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### 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.

### Interactive effects

#### XYLENE (MIXTURE OF ISOMERS)

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.

#### TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### 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).

### ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

>2000 mg/kg

#### XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal):

4350 mg/kg Rabbit

STA (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

STA (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)

#### TOLUENE

LD50 (Dermal):

12124 mg/kg Rabbit

LD50 (Oral):

5580 mg/kg Rat

LC50 (Inhalation vapours):

28,1 mg/l/4h Rat

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## SECTION 11. Toxicological information ... / &gt;&gt;

## N-BUTYL ACETATE

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

## Miscela reattiva di etilbenzene ,m-xilene p-xilene ( Benzene &lt;0,01% )

|                            |   |
|----------------------------|---|
| LD50 (Dermal):             | 12126 mg/kg   |
| STA (Dermal):              | 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| LD50 (Oral):               | 3500 mg/kg  |
| LC50 (Inhalation vapours): | 27,124 mg/l/4h  |
| STA (Inhalation vapours):  | 11 mg/l estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture)    |

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## XYLENE (MIXTURE OF ISOMERS)

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".

## TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).  
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for 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.

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## SECTION 12. Ecological information

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

### 12.1. Toxicity

|   |               |
|---|---------------|
| N-BUTYL ACETATE   |               |
| EC50 - for Crustacea  | 44 mg/l/48h   |
| Miscela reattiva di etilbenzene ,m-xilene p-xilene ( Benzene <0,01% ) |               |
| LC50 - for Fish   | 2,6 mg/l/96h  |
| EC50 - for Algae / Aquatic Plants                                     | 4,36 mg/l/72h |
| EC10 for Algae / Aquatic Plants                                       | 1900 µg/L/72h |
| Chronic NOEC for Fish   | 1,3 mg/l      |
| Chronic NOEC for Crustacea  | 1065 µg/L     |
| Chronic NOEC for Algae / Aquatic Plants                               | 440 µg/L/72   |

### 12.2. Persistence and degradability

|                             |                   |
|-----------------------------|-------------------|
| XYLENE (MIXTURE OF ISOMERS) |                   |
| Solubility in water         | 100 - 1000 mg/l   |
| Rapidly degradable          |                   |
| TOLUENE                     |                   |
| Solubility in water         | 100 - 1000 mg/l   |
| Rapidly degradable          |                   |
| ETHYL ACETATE               |                   |
| Solubility in water         | > 10000 mg/l      |
| Rapidly degradable          |                   |
| N-BUTYL ACETATE             |                   |
| Solubility in water         | 1000 - 10000 mg/l |

### 12.3. Bioaccumulative potential

|  |      |
|--|------|
| XYLENE (MIXTURE OF ISOMERS)            |      |
| Partition coefficient: n-octanol/water | 3,12 |
| BCF                                    | 25,9 |
| TOLUENE                                |      |
| Partition coefficient: n-octanol/water | 2,73 |
| BCF                                    | 90   |
| ETHYL ACETATE                          |      |
| Partition coefficient: n-octanol/water | 0,68 |
| BCF                                    | 30   |
| N-BUTYL ACETATE                        |      |
| Partition coefficient: n-octanol/water | 2,3  |
| BCF                                    | 15,3 |

### 12.4. Mobility in soil

|                                   |      |
|-----------------------------------|------|
| XYLENE (MIXTURE OF ISOMERS)       |      |
| Partition coefficient: soil/water | 2,73 |
| N-BUTYL ACETATE                   |      |
| Partition coefficient: soil/water | < 3  |

### 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%.

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## SECTION 12. Ecological information ... / &gt;&gt;

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

## 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

## 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263

## 14.2. UN proper shipping name

ADR / RID: PAINT RELATED MATERIAL

IMDG: PAINT RELATED MATERIAL

IATA: 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: II

## 14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

## 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 5 L

Special provision: 163, 367, 640D, 650

Tunnel restriction code: (D/E)

IMDG: EMS: F-E, S-E Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 60 L

Passengers: Maximum quantity: 5 L

Special provision: A3, A72, A192

Packaging instructions: 364

Packaging instructions: 353

## 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

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## SECTION 15. Regulatory information

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

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

Point 48 TOLUENE  
REACH Reg.: 01-2119471310-51

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. 2</b>  | Flammable liquid, category 2                                       |
| <b>Flam. Liq. 3</b>  | Flammable liquid, category 3                                       |
| <b>Repr. 2</b>       | Reproductive toxicity, category 2                                  |
| <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>Eye Irrit. 2</b>  | Eye irritation, 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>H225</b>          | Highly flammable liquid and vapour.                                |
| <b>H226</b>          | Flammable liquid and vapour.                                       |
| <b>H361d</b>         | Suspected of damaging the unborn child.                            |
| <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>H319</b>          | Causes serious eye irritation.                                     |
| <b>H315</b>          | Causes skin irritation.  |
| <b>H335</b>          | May cause respiratory irritation.                                  |
| <b>H336</b>          | May cause drowsiness or dizziness.                                 |

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## SECTION 16. Other information ... / &gt;&gt;

## EUH066

Repeated exposure may cause skin dryness or cracking.

## LEGEND:

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

## 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
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- The Merck Index. - 10th Edition
  - Handling Chemical Safety
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  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

## Changes to previous review:

The following sections were modified:

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