

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

1.1. Product identifier

Code: **CK202650001**
Product name: **KRAFT BETONYL WHITE**

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

Intended use: **Acrylic Solvent-Based Masonry Paint**

1.3. Details of the supplier of the safety data sheet

Name: **DRUCKFARBEN HELLAS SA**
Full address: **Megaridos Ave**
District and Country: **193 00 Aspropyrgos (Attiki) Greece**
Tel.: **+30 210 5519500**
Fax: **+30 210 5519501**
e-mail address of the competent person responsible for the Safety Data Sheet: **psafety@druckfarben.gr**

1.4. Emergency telephone number

For urgent inquiries refer to: **+30 210 7793777**

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. |
| 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:



Signal words: **Warning**

Hazard statements:

| | |
|---------------|---|
| H226 | Flammable liquid and vapour. |
| 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. |
| P280 | Wear protective gloves/ protective clothing / eye protection / face protection. |

SECTION 2. Hazards identification ... / >>

| | |
|------------------|--|
| P370+P378 | In case of fire: use CO ₂ , foam or dry powder for extinction. |
| P501 | Dispose of contents and container to an approved waste disposal plant or recycled in accordance with local / national / international regulations. |
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing dust / fume / gas / mist / vapours / spray. |

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
|---|-----------------------|--------------------------------|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
| CAS | 64742-48-9 | 20 ≤ x < 30 |
| EC | 919-857-5 | |
| INDEX | | |
| REACH Reg. | 01-2119463258-33-0000 | |
| Zinc Oxide | | |
| CAS | 1314-13-2 | 1 ≤ x < 2,5 |
| EC | 215-222-5 | |
| INDEX | 030-013-00-7 | |
| REACH Reg. | 01-2119463881-32 | |
| Methoxy Propyl Acetate (MPA) | | |
| CAS | 108-65-6 | 0 ≤ x < 0,5 |
| EC | 203-603-9 | |
| INDEX | 607-195-00-7 | |
| Quartz (SiO₂) | | |
| CAS | 14808-60-7 | 0 ≤ x < 0,5 |
| EC | 238-878-4 | |
| INDEX | | |
| 1-methoxy-2-propanol | | |
| CAS | 107-98-2 | 0 ≤ x < 0,5 |
| EC | 203-539-1 | |
| INDEX | 603-064-00-3 | |
| REACH Reg. | 01-2119457435-35-0000 | |
| Xylene (mixture of isomers) | | |
| CAS | 1330-20-7 | 0 ≤ x < 0,5 |
| EC | 215-535-7 | |
| INDEX | 601-022-00-9 | |
| REACH Reg. | 01-2119488216-32 | |
| Acetone | | |
| CAS | 67-64-1 | 0 ≤ x < 0,5 |
| EC | 200-662-2 | |
| INDEX | 606-001-00-8 | |
| REACH Reg. | 01-2119471330-49-0016 | |

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

SECTION 4. First aid measures ... / >>

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.

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.

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.) |
| 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 |
| 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 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2020 |

Acetone

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | BGR | 600 | | 1400 | | |
| TLV | GRC | 1780 | | 3560 | | |
| VLEP | ITA | 1210 | 500 | | | |
| WEL | GBR | 1210 | 500 | 3620 | 1500 | |
| OEL | EU | 1210 | 500 | | | |
| TLV-ACGIH | | 1187 | 500 | 1781 | 750 | |

Predicted no-effect concentration - PNEC

| | | |
|------------------------------------|------|------|
| Normal value in fresh water | 10,6 | mg/l |
| Normal value in marine water | 1,06 | mg/l |
| Normal value of STP microorganisms | 29,5 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | VND | | | | | |
| Inhalation | | | VND | 62 mg/kg/d | VND | 2420 mg/m3 | VND | 1210 mg/m3 |
| Skin | | | VND | 62 mg/kg/d | | | VND | 186 mg/kg/d |

SECTION 8. Exposure controls/personal protection ... / >>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 1200 | | | | | | | |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 300 mg/kg/d | | | | |
| Inhalation | | | | VND | 900 mg/m3 | VND | 1500 mg/m3 | | |
| Skin | | | | VND | 300 mg/kg/d | | | VND | 300 mg/kg/d |

1-methoxy-2-propanol
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 360 | 100 | 1080 | 300 | | | | |
| WEL | GBR | | 100 | | 150 | | | | |
| OEL | EU | 375 | 100 | 568 | 150 | | | | |
| TLV-ACGIH | | | 100 | | 150 | | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|------|-------|
| Normal value in fresh water | 10 | mg/l |
| Normal value in marine water | 1 | mg/l |
| Normal value for fresh water sediment | 41,6 | mg/kg |
| Normal value for marine water sediment | 4,17 | mg/kg |
| Normal value for water, intermittent release | 100 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 3,3 mg/kg | | | | |
| Inhalation | | | | VND | 43,9 mg/m3 | 553,5 mg/m3 | VND | VND | 369 mg/m3 |
| Skin | | | | VND | 18,1 mg/kg | | | VND | 50,6 mg/kg |

Xylene (mixture of isomers)
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 435 | 100 | 650 | 150 | | | | |
| WEL | GBR | | 50 | | 100 | | | | |
| OEL | EU | 221 | 50 | 442 | 100 | | | | |
| TLV-ACGIH | | | 100 | | 150 | | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|-------|-------|
| Normal value in fresh water | 0,327 | mg/l |
| Normal value in marine water | 0,327 | mg/l |
| Normal value for fresh water sediment | 12,46 | mg/kg |
| Normal value for marine water sediment | 12,46 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 1,6 mg/kg/d | | | | |
| Inhalation | 174 mg/m3 | 174 mg/m3 | | VND | 14,8 mg/m3 | 289 mg/m3 | 289 mg/m3 | VND | 77 mg/m3 |
| Skin | | | | VND | 108 mg/kg/d | | | VND | 180 mg/kg/d |

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

Methoxy Propyl Acetate (MPA)

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|------|---------|-------------------|-----|-------------------|-----|------------------------|
| | | mg/m ³ | ppm | mg/m ³ | ppm | |
| TLV | BGR | 275 | 50 | 550 | 100 | SKIN |
| TLV | GRC | 275 | 50 | 550 | 100 | |
| VLEP | ITA | 275 | 50 | 550 | 100 | SKIN |
| TLV | ROU | 275 | 50 | 550 | 100 | SKIN |
| WEL | GBR | 274 | 50 | 548 | 100 | SKIN |
| OEL | EU | 275 | 50 | 550 | 100 | SKIN |

Predicted no-effect concentration - PNEC

| | | |
|--|--------|-------|
| Normal value in fresh water | 0,635 | mg/l |
| Normal value in marine water | 0,0635 | ml/l |
| Normal value for fresh water sediment | 3,29 | mg/kg |
| Normal value for marine water sediment | 0,329 | mg/kg |
| Normal value for water, intermittent release | 6,35 | mg/l |
| Normal value of STP microorganisms | 100 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|----------------------|-------------------------|----------------|---------------|-----------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | VND | 1,67 mg/kg | | | | |
| Inhalation | | | VND | 33 mg/m ³ | 553,5 mg/m ³ | VND | VND | 275 mg/m ³ |
| Skin | | | VND | 54,8 mg/kg | | | VND | 153,5 mg/kg |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: 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 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 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.

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 |
|------------|-------|-------------|
|------------|-------|-------------|

SECTION 9. Physical and chemical properties ... / >>

| | | | |
|--|----------------|-----|--------------------|
| Appearance | liquid | | |
| Colour | white | | |
| Odour | characteristic | | |
| Melting point / freezing point | Not available | | |
| Initial boiling point | Not available | | |
| Flammability | Not available | | |
| Lower explosive limit | Not available | | |
| Upper explosive limit | Not available | | |
| Flash point | 23 ≤ T ≤ 60 | °C | |
| Auto-ignition temperature | Not available | | |
| pH | Not available | | |
| Kinematic viscosity | Not available | | |
| Dynamic viscosity | 100-110 KU | | Temperature: 25 °C |
| Solubility | Not available | | |
| Partition coefficient: n-octanol/water | Not available | | |
| Vapour pressure | Not available | | |
| Density and/or relative density | 1,47-1,52 | g/l | Temperature: 20 °C |
| 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) | 62,40 % |
| VOC (Directive 2010/75/EC) | 26,84 % |
| VOC (volatile carbon) | 26,72 % |

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Acetone

ACETONE: decomposes under the effect of heat.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: absorbs and dissolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

Methoxy Propyl Acetate (MPA)

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.

Acetone

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

Methoxy Propyl Acetate (MPA)

SECTION 10. Stability and reactivity ... / >>

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.

Acetone

ACETONE: avoid exposure to sources of heat and naked flames.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: avoid exposure to the air.

10.5. Incompatible materials

Acetone

ACETONE: acid and oxidising substances.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

Methoxy Propyl Acetate (MPA)

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

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.

Acetone

ACETONE: ketenes and other irritating compounds.

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

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information

Methoxy Propyl Acetate (MPA)

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

Methoxy Propyl Acetate (MPA)

WORKERS: inhalation; contact with the skin.

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

Methoxy Propyl Acetate (MPA)

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

Information not available

ACUTE TOXICITY

SECTION 11. Toxicological information ... / >>

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

Acetone
LD50 (Oral): 5800 mg/kg Rat
LD50 (Dermal): 500 mg/kg Rabbit

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50 (Oral): > 5000 mg/kg Rat
LD50 (Dermal): > 5000 mg/kg Rabbit
LC50 (Inhalation vapours): > 20 mg/l/4h Rat

1-methoxy-2-propanol
LD50 (Oral): > 2000 mg/kg Rat
LD50 (Dermal): > 5000 mg/kg Rabbit
LC50 (Inhalation vapours): 54,6 mg/l/4h Rat

Xylene (mixture of isomers)
LD50 (Oral): 3523 mg/kg Rat
LD50 (Dermal): > 1700 mg/kg Rabbit
LC50 (Inhalation vapours): 5000 ppm/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)

Zinc Oxide
LD50 (Oral): > 8,437 mg/kg Rat
LD50 (Dermal): > 5 mg/kg Rabbit

Methoxy Propyl Acetate (MPA)
LD50 (Oral): 8530 mg/kg Rat
LD50 (Dermal): > 5000 mg/kg Rat
LC50 (Inhalation vapours): > 25,8 mg/l Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

SECTION 11. Toxicological information ... / >>Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organ

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organ

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

Acetone

| | |
|-----------------------------------|-----------------|
| LC50 - for Fish | > 100 mg/l/96h |
| EC50 - for Algae / Aquatic Plants | > 5600 mg/l/72h |
| Chronic NOEC for Fish | 0,1 mg/l |

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | |
|-----------------------------------|--|
| LC50 - for Fish | > 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms |
| EC50 - for Crustacea | > 100 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | > 100 mg/l/72h |
| Chronic NOEC for Fish | > 0,1 mg/l |
| Chronic NOEC for Crustacea | > 0,1 mg/l |

1-methoxy-2-propanol

| | |
|-----------------|----------------|
| LC50 - for Fish | > 6,8 mg/l/96h |
|-----------------|----------------|

Xylene (mixture of isomers)

| | |
|-----------------|-------------------------------|
| LC50 - for Fish | > 100 mg/l/96h Microorganisms |
|-----------------|-------------------------------|

Zinc Oxide

| | |
|-----------------------------------|--|
| LC50 - for Fish | 1,1 mg/l/96h Oncorhynchus mykiss |
| EC50 - for Crustacea | 1,7 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 0,14 mg/l/72h Pseudokirchnerella subcapitata |
| Chronic NOEC for Fish | 0,53 mg/l |

SECTION 12. Ecological information ... / >>

Chronic NOEC for Algae / Aquatic Plants 0,024 mg/l

12.2. Persistence and degradabilityAcetone
Rapidly degradableHydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Rapidly degradableXylene (mixture of isomers)
Rapidly degradableZinc Oxide
Solubility in water 2,9 mg/l
NOT rapidly degradableMethoxy Propyl Acetate (MPA)
Solubility in water > 10000 mg/l
Rapidly degradable**12.3. Bioaccumulative potential**Acetone
Partition coefficient: n-octanol/water -0,24
BCF 3Zinc Oxide
BCF > 175Methoxy Propyl Acetate (MPA)
Partition coefficient: n-octanol/water 1,2**12.4. Mobility in soil**

Information not available

12.5. Results of PBT and vPvB assessmentOn the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.**12.6. Endocrine disrupting properties**

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1263

SECTION 14. Transport information ... / >>**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: NO
IATA: NO

14.6. Special precautions for user

| | | | |
|------------|--|--|--|
| ADR / RID: | HIN - Kemler: 30 Special provision: 163, 367, 650 | Limited Quantities: 5 L | Tunnel restriction code: (D/E) |
| IMDG: | EMS: F-E, S-E | Limited Quantities: 5 L | |
| IATA: | Cargo: Pass.: Special provision: | Maximum quantity: 220 L Maximum quantity: 60 L 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**

Seveso Category - Directive 2012/18/EC: P5c

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

| | |
|----------------------------|--------|
| <u>Product</u> | |
| Point | 3 - 40 |
| <u>Contained substance</u> | |
| Point | 75 |

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors
Not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

SECTION 15. Regulatory information ... / >>

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:

| | |
|--------------------------|--|
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

LEGEND:

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

SECTION 16. Other information ... / >>

- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

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

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

1.1. Product identifier

Code: **CK202657030**
Product name: **KRAFT BETONYL 7030 (GREY)**

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

Intended use: **Acrylic Solvent-Based Masonry Paint**

1.3. Details of the supplier of the safety data sheet

Name: **DRUCKFARBEN HELLAS SA**
Full address: **Megaridos Ave**
District and Country: **193 00 Aspropyrgos (Attiki)**
Greece
Tel.: **+30 210 5519500**
Fax: **+30 210 5519501**
e-mail address of the competent person responsible for the Safety Data Sheet: **psafety@druckfarben.gr**

1.4. Emergency telephone number

For urgent inquiries refer to: **+30 210 7793777**

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. |
| Skin irritation, category 2 | H315 | Causes skin irritation. |
| 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:

Signal words: **Warning**

Hazard statements:

| | |
|-------------|--|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements:

| | |
|-------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|-------------|--|

SECTION 2. Hazards identification ... / >>

| | |
|------------------|--|
| P280 | Wear protective gloves/ protective clothing / eye protection / face protection. |
| P370+P378 | In case of fire: use CO ₂ , foam or dry powder for extinction. |
| P501 | Dispose of contents and container to an approved waste disposal plant or recycled in accordance with local / national / international regulations. |
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing dust / fume / gas / mist / vapours / spray. |

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
|---|-----------------------|--------------------------------|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
| CAS | 64742-48-9 | 20 ≤ x < 30 |
| Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Classification note according to Annex VI to the CLP Regulation: P | | |
| EC | 919-857-5 | |
| INDEX | | |
| REACH Reg. | 01-2119463258-33-0000 | |
| Xylene (mixture of isomers) | | |
| CAS | 1330-20-7 | 5 ≤ x < 9 |
| Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C | | |
| STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l | | |
| EC | 215-535-7 | |
| INDEX | 601-022-00-9 | |
| Pigment Black 11 | | |
| CAS | 1317-61-9 | 1 ≤ x < 5 |
| EC | 215-277-5 | |
| INDEX | | |
| Zinc Oxide | | |
| CAS | 1314-13-2 | 1 ≤ x < 2,5 |
| EC | 215-222-5 | |
| INDEX | 030-013-00-7 | |
| REACH Reg. | 01-2119463881-32 | |
| Quartz (SiO₂) | | |
| CAS | 14808-60-7 | 0 ≤ x < 0,5 |
| EC | 238-878-4 | |
| INDEX | | |
| 1-methoxy-2-propanol | | |
| CAS | 107-98-2 | 0 ≤ x < 0,5 |
| EC | 203-539-1 | |
| INDEX | 603-064-00-3 | |
| REACH Reg. | 01-2119457435-35-0000 | |
| Xylene (mixture of isomers) | | |
| CAS | 1330-20-7 | 0 ≤ x < 0,5 |
| 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, Classification note according to Annex VI to the CLP Regulation: C | | |
| LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l | | |
| EC | 215-535-7 | |
| INDEX | 601-022-00-9 | |
| REACH Reg. | 01-2119488216-32 | |
| Acetone | | |
| CAS | 67-64-1 | 0 ≤ x < 0,5 |
| EC | 200-662-2 | |
| INDEX | 606-001-00-8 | |
| REACH Reg. | 01-2119471330-49-0016 | |
| 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.

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.

SECTION 6. Accidental release measures ... / >>

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.

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.) |
| GRC | Ελλάδα | Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"» |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| 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 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2020 |

Acetone

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | BGR | 600 | | 1400 | | |
| TLV | GRC | 1780 | | 3560 | | |
| VLEP | ITA | 1210 | 500 | | | |
| WEL | GBR | 1210 | 500 | 3620 | 1500 | |
| OEL | EU | 1210 | 500 | | | |
| TLV-ACGIH | | 1187 | 500 | 1781 | 750 | |

Predicted no-effect concentration - PNEC

| | | |
|------------------------------------|------|------|
| Normal value in fresh water | 10,6 | mg/l |
| Normal value in marine water | 1,06 | mg/l |
| Normal value of STP microorganisms | 29,5 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | |
|-------------------|----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | VND | 62 mg/kg/d | | | | |
| Inhalation | | | VND | 200 mg/m3 | VND | 2420 mg/m3 | VND | 1210 mg/m3 |
| Skin | | | VND | 62 mg/kg/d | | | VND | 186 mg/kg/d |

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 1200 | | | | | | | |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 300 mg/kg/d | | | | |
| Inhalation | | | | VND | 900 mg/m3 | VND | 1500 mg/m3 | | |
| Skin | | | | VND | 300 mg/kg/d | | | VND | 300 mg/kg/d |

1-methoxy-2-propanol

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 360 | 100 | 1080 | 300 | | | | |
| WEL | GBR | | 100 | | 150 | | | | |
| OEL | EU | 375 | 100 | 568 | 150 | | | | |
| TLV-ACGIH | | | 100 | | 150 | | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|------|-------|
| Normal value in fresh water | 10 | mg/l |
| Normal value in marine water | 1 | mg/l |
| Normal value for fresh water sediment | 41,6 | mg/kg |
| Normal value for marine water sediment | 4,17 | mg/kg |
| Normal value for water, intermittent release | 100 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 3,3 mg/kg | | | | |
| Inhalation | | | | VND | 43,9 mg/m3 | 553,5 mg/m3 | VND | VND | 369 mg/m3 |
| Skin | | | | VND | 18,1 mg/kg | | | VND | 50,6 mg/kg |

Xylene (mixture of isomers)

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | | |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 435 | 100 | 650 | 150 | | | | |
| WEL | GBR | | 50 | | 100 | | | | |
| OEL | EU | 221 | 50 | 442 | 100 | | | | |
| TLV-ACGIH | | | 100 | | 150 | | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|-------|-------|
| Normal value in fresh water | 0,327 | mg/l |
| Normal value in marine water | 0,327 | mg/l |
| Normal value for fresh water sediment | 12,46 | mg/kg |
| Normal value for marine water sediment | 12,46 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--|--------------------|------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | VND | 1,6 mg/kg/d | | | | |
| Inhalation | 174 mg/m3 | 174 mg/m3 | | VND | 14,8 mg/m3 | 289 mg/m3 | 289 mg/m3 | VND | 77 mg/m3 |
| Skin | | | | VND | 108 mg/kg/d | | | VND | 180 mg/kg/d |

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

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 |
| TLV | GRC | 435 | 100 | 650 | 150 | |
| VLEP | ITA | 221 | 50 | 442 | 100 | SKIN |
| TLV | ROU | 221 | 50 | 442 | 100 | SKIN |
| WEL | GBR | 220 | 50 | 441 | 100 | SKIN |
| OEL | EU | 221 | 50 | 442 | 100 | SKIN |
| TLV-ACGIH | | 434 | 100 | 651 | 150 | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: 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.

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 | grey | |
| Odour | characteristic | |
| Melting point / freezing point | Not available | |
| Initial boiling point | Not available | |
| Flammability | Not available | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Flash point | > 23 °C | |
| Auto-ignition temperature | Not available | |
| pH | Not available | |
| Kinematic viscosity | Not available | |
| Dynamic viscosity | 85 - 95 KU | Temperature: 25 °C |
| Solubility | Not available | |
| Partition coefficient: n-octanol/water | Not available | |

SECTION 9. Physical and chemical properties ... / >>

| | | | |
|---------------------------------|----------------|-----|--------------------|
| Vapour pressure | Not available | | |
| Density and/or relative density | 1,34 -1,40 | g/l | Temperature: 20 °C |
| 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) | 49,46 % |
| g/litre VOC (Directive 2010/75/EC) | 499,00 |
| VOC (volatile carbon) | 34,70 % |

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

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

Acetone

ACETONE: decomposes under the effect of heat.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: absorbs and dissolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

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.

Acetone

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May 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.

10.4. Conditions to avoid

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

Acetone

ACETONE: avoid exposure to sources of heat and naked flames.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: avoid exposure to the air.

10.5. Incompatible materials

Acetone

ACETONE: acid and oxidising substances.

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

SECTION 10. Stability and reactivity ... / >>**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.

Acetone

ACETONE: ketenes and other irritating compounds.

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

1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Xylene (mixture of isomers)

WORKERS: inhalation; contact with the skin.

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

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.

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.

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 |

Acetone

| | |
|----------------|------------------|
| LD50 (Oral): | 5800 mg/kg Rat |
| LD50 (Dermal): | 500 mg/kg Rabbit |

| | |
|---|---------------------|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | |
| LD50 (Oral): | > 5000 mg/kg Rat |
| LD50 (Dermal): | > 5000 mg/kg Rabbit |
| LC50 (Inhalation vapours): | > 20 mg/l/4h Rat |

SECTION 11. Toxicological information ... / >>

| | |
|-----------------------------|---|
| 1-methoxy-2-propanol | |
| LD50 (Oral): | > 2000 mg/kg Rat |
| LD50 (Dermal): | > 5000 mg/kg Rabbit |
| LC50 (Inhalation vapours): | 54,6 mg/l/4h Rat |
| Xylene (mixture of isomers) | |
| LD50 (Oral): | 3523 mg/kg Rat |
| LD50 (Dermal): | > 1700 mg/kg Rabbit |
| LC50 (Inhalation vapours): | 5000 ppm/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) |
| Xylene (mixture of isomers) | |
| LD50 (Oral): | 3523 mg/kg Rat |
| 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) |
| 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) |
| Zinc Oxide | |
| LD50 (Oral): | > 8,437 mg/kg Rat |
| LD50 (Dermal): | > 5 mg/kg Rabbit |

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

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

SECTION 11. Toxicological information ... / >>

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organ

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organ

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity**Acetone**

| | |
|-----------------------------------|-----------------|
| LC50 - for Fish | > 100 mg/l/96h |
| EC50 - for Algae / Aquatic Plants | > 5600 mg/l/72h |
| Chronic NOEC for Fish | 0,1 mg/l |

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | |
|-----------------------------------|--|
| LC50 - for Fish | > 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms |
| EC50 - for Crustacea | > 100 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | > 100 mg/l/72h |
| Chronic NOEC for Fish | > 0,1 mg/l |
| Chronic NOEC for Crustacea | > 0,1 mg/l |

1-methoxy-2-propanol

| | |
|-----------------|----------------|
| LC50 - for Fish | > 6,8 mg/l/96h |
|-----------------|----------------|

Xylene (mixture of isomers)

| | |
|-----------------|-------------------------------|
| LC50 - for Fish | > 100 mg/l/96h Microorganisms |
|-----------------|-------------------------------|

Zinc Oxide

| | |
|---|--|
| LC50 - for Fish | 1,1 mg/l/96h Oncorhynchus mykiss |
| EC50 - for Crustacea | 1,7 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 0,14 mg/l/72h Pseudokirchnerella subcapitata |
| Chronic NOEC for Fish | 0,53 mg/l |
| Chronic NOEC for Algae / Aquatic Plants | 0,024 mg/l |

12.2. Persistence and degradability

SECTION 12. Ecological information ... / >>

Acetone
Rapidly degradable

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Rapidly degradable

Xylene (mixture of isomers)
Rapidly degradable

Xylene (mixture of isomers)
Solubility in water 100 - 1000 mg/l
Degradability: information not available

Pigment Black 11
Solubility in water < 0,001 mg/l
Degradability: information not available

Zinc Oxide
Solubility in water 2,9 mg/l
NOT rapidly degradable

12.3. Bioaccumulative potential

Acetone
Partition coefficient: n-octanol/water -0,24
BCF 3

Xylene (mixture of isomers)
Partition coefficient: n-octanol/water 3,12
BCF 25,9

Zinc Oxide
BCF > 175

12.4. Mobility in soil

Xylene (mixture of isomers)
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.

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 nameADR / 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 hazardsADR / RID: NO
IMDG: NO
IATA: NO**14.6. Special precautions for user**

| | | | |
|------------|--|--|--|
| ADR / RID: | HIN - Kemler: 30 Special provision: 163, 367, 650 | Limited Quantities: 5 L | Tunnel restriction code: (D/E) |
| IMDG: | EMS: F-E, S-E | Limited Quantities: 5 L | |
| IATA: | Cargo: Pass.: Special provision: | Maximum quantity: 220 L Maximum quantity: 60 L 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**Seveso Category - Directive 2012/18/EC: P5cRestrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

| | |
|----------------------------|--------|
| <u>Product</u> | |
| Point | 3 - 40 |
| <u>Contained substance</u> | |
| Point | 75 |

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors
Not applicableSubstances 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%.

SECTION 15. Regulatory information ... / >>

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

| | |
|--------------------------|--|
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration

SECTION 16. Other information ... / >>

- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

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