

KRAFT ARTERRA PATITI Varnish PU-S Mat Comp.-A

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ΕN

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:
 CK34210M000

 Product name
 KRAFT ARTERRA PATITI Varnish PU-S Mat Comp.-A

UFI :

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

Intended use

Aliphatic, polyurethane 2-component solvent-based protective varnish & Coating for surface protection of concrete structures

1.3. Details of the supplier of the safety data sheet

| Name Full address | | ARBEN HELLAS SA OS AVENUE | |
|--|----------|------------------------------|----------|
| District and Country | 19300 | ASPROPYRGOS GREECE | (ATTIKI) |
| | 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 | | | |

9C60-Q0AS-K002-SSDE

For urgent inquiries refer to

0030-210-7793777

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. Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways. Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation. Specific target organ toxicity - single exposure, May cause respiratory irritation. H335 category 3 Skin sensitization, category 1A H317 May cause an allergic skin reaction. Specific target organ toxicity - single exposure, H336 May cause drowsiness or dizziness.

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

category 3

toxicity, category 3

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

Hazard pictograms:





Signal words:

SECTION 2. Hazards identification ... / >>

Danger

DRUCKFARBEN HELLAS SA

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EPY 11.5.1 - SDS 1004.14

| Hazard statements: | |
|---------------------------|--|
| H226 | Flammable liguid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eve irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH210 | Safety data sheet available on request. |
| Lonzio | |
| Precautionary statements: | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P331 | Do NOT induce vomiting. |
| P301+P310 | IF SWALLOWED: immediately call a POISON CENTER or a doctor |
| P370+P378 | In case of fire: use alcohol resistant foam to extinguish. |
| P501 | Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national / international regulations. |
| P102 | Keep out of reach of children. |
| P101 | If medical advice is needed, have product container or label at hand. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves / eye protection / face protection. |
| P312 | Call a POISON CENTRE / doctor, if you feel unwell. |
| Contains: | Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate n-Butyl Acetate Xylene Hydrocarbons, C9, aromatics |
| | Xylene |

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

| Contains: | | | |
|-----------------------------|------------------|-------------------|---|
| Identification | | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
| n-Butyl Aceta | te | | |
| INDEX | 607-025-00-1 | $30 \le x \le 50$ | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 |
| EC | 204-658-1 | | |
| CAS | 123-86-4 | | |
| REACH Reg. | 01-2119485493-29 | 9-0XXX | |
| Hydrocarbon | s, C9, aromatics | | |
| INDEX | | 5≤x< 9 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P |
| EC | 918-668-5 | | |
| CAS | 64742-95-6 | | |
| REACH Reg. Xylene | 01-2119455851-35 | 5-0001 | 01-2119486773-24 |
| INDEX | 601-022-00-9 | 5≤x< 9 | 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, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C |
| EC | 215-535-7 | | STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l |
| CAS | 1330-20-7 | | |
| REACH Reg. | 01-2119488216-32 | 2 | |
| Ū. | | | |



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| ECTION 3. C | omposition/infor | mation on ingredie | ents …/>> |
|----------------------------|---------------------|---------------------|--|
| Reaction mas | s of Ethylbenzene | and Xylene | |
| INDEX | | 1≤x< 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, Aquatic Chronic 3 H412 |
| EC | 905-588-0 | | STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l |
| CAS | | | |
| REACH Reg. Ethylbenzene | | | 01-2119539452-40-0055 |
| INDEX | 601-023-00-4 | 1≤x< 5 | Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412 |
| EC | 202-849-4 | | LC50 Inhalation vapours: 17,6 mg/l/4h |
| CAS | 100-41-4 | | |
| REACH Reg. | 01-2119489370-3 | 5 | |
| 0 | | | ridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate |
| INDEX | | 0,25 ≤ x < 0,5 | Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC | 915-687-0 | | |
| CAS | 1065336-91-5 | | |
| REACH Reg. | 01-2119491304-4 | 0-0000 01-211949130 | 4-40-0002 |
| N-BUTYL ACI | | | |
| INDEX | 607-025-00-1 | 0 ≤ x < 0,5 | Flam. Lig. 3 H226, STOT SE 3 H336, EUH066 |
| EC | 204-658-1 | | ······································ |
| CAS | 123-86-4 | | |
| | Methylethyl Acetate | • | |
| INDEX | 607-195-00-7 | 0≤x< 0.5 | Flam. Lig. 3 H226, STOT SE 3 H336 |
| EC | 203-603-9 | 0 = X < 0,5 | Train. Eld. 3 11220, 3101 3E 3 11330 |
| CAS | | | |
| | 108-65-6 | 00 0045 04 04404757 | 04 00 |
| REACH Reg. | 01-211945/5/91- | 29-0015 01-21194757 | 9129 |
| Acetone | 000 001 00 0 | 0 4 4 4 0 5 | |
| INDEX | 606-001-00-8 | $0 \le x \le 0,5$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC | 200-662-2 | | |
| CAS | 67-64-1 | | |
| REACH Reg. | 01-2119471330-4 | 9-0003 | |
| Formaldehyd | | | |
| INDEX | 605-001-00-5 | 0 ≤ x < 0,1 | Carc. 1B H350, Muta. 2 H341, Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: B, D |
| EC | 200-001-8 | | Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 5%, Skin Sens. 1 H317: ≥ 0,2%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 5%, STOT SE 3 H335: ≥ 5% |
| CAS | 50-00-0 | | LD50 Oral: 100 mg/kg, LD50 Dermal: 270 mg/kg, LC50 Inhalation vapours: 0,588 mg/l/4h |
| REACH Reg. | 01-2119488953-2 | 0 | · • |
| Quartz (Cryst | | - | |
| INDEX | , | 0 ≤ x < 0,5 | Substance with a community workplace exposure limit. |
| EC | 238-878-4 | ,. | ······································ |
| CAS | 14808-60-7 | | |
| 0,10 | , 1000 00-1 | | |

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.



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

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. 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



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SECTION 7. Handling and storage ... / >>

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.) |
|-----|----------------|--|
| DEU | Deutschland | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe. Mitteilung 56 |
| 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 si completarea hotărârii guvernului nr. 1.093/2006 |
| 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 |

| | Xylene | | | | | | | | | | | | | | |
|-----------------|----------------------|--------|-----|---------|-----|------------------------|--|--|--|--|--|--|--|--|--|
| Threshold Limit | hreshold Limit Value | | | | | | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | | | | | | | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | | | | | | | |
| TLV | BGR | 221 | 50 | 442 | 100 | SKIN | | | | | | | | | |
| AGW | DEU | 440 | 100 | 880 | 200 | SKIN | | | | | | | | | |
| MAK | DEU | 440 | 100 | 880 | 200 | SKIN | | | | | | | | | |
| 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 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | Formaldehyde | | | | | | | | | | | | | | |
|-----------------|----------------------|--------|-----|---------|-----|------------------------|--|--|--|--|--|--|--|--|--|
| Threshold Limit | hreshold Limit Value | | | | | | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | | | | | | | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | | | | | | | |
| TLV | BGR | 1 | | 2 | | | | | | | | | | | |
| AGW | DEU | 0,37 | 0,3 | 0,74 | 0,6 | | | | | | | | | | |
| TLV | GRC | 0,37 | 0,3 | 0,74 | 0,6 | | | | | | | | | | |
| VLEP | ITA | 0,37 | 0,3 | 0,74 | 0,6 | | | | | | | | | | |
| TLV | ROU | 0,37 | 0,3 | 0,74 | 0,6 | | | | | | | | | | |
| WEL | GBR | 2,5 | 2 | 2,5 | 2 | | | | | | | | | | |
| OEL | EU | 0,37 | 0,3 | 0,74 | 0,6 | | | | | | | | | | |
| TLV-ACGIH | | | 0,1 | | 0,3 | | | | | | | | | | |



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

| | | | | Quartz (Cry | ystalline Silica | | | | | | | | | |
|-------------------|-----------------------|--------|-----|-------------|------------------|------------------------|--|--|--|--|--|--|--|--|
| Threshold Limit V | Fhreshold Limit Value | | | | | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | | | | | | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | | | | | | |
| VLEP | ITA | 0,1 | | | | RESP | | | | | | | | |
| TLV | ROU | 0,1 | | | | RESP | | | | | | | | |
| OEL | EU | 0,1 | | | | RESP | | | | | | | | |
| TLV-ACGIH | | 0,025 | | | | RESP | | | | | | | | |

Acetone

| Туре | Country | TWA/8h | | STEL/15n | nin | Remarks / Observations | |
|-----------|---------|--------|-----|----------|----------|------------------------|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| TLV | BGR | 600 | | 1400 | | | |
| AGW | DEU | 1200 | 500 | 2400 (C) | 1000 (C) | | |
| MAK | DEU | 1200 | 500 | 2400 | 1000 | | |
| TLV | GRC | 1780 | | 3560 | | | |
| VLEP | ITA | 1210 | 500 | | | | |
| TLV | ROU | 1210 | 500 | | | | |
| WEL | GBR | 1210 | 500 | 3620 | 1500 | | |
| OEL | EU | 1210 | 500 | | | | |
| TLV-ACGIH | | | 250 | | 500 | | |

| | 2-Methoxy-1-Methylethyl Acetate | | | | | | | | | | | | | | |
|---------------|---------------------------------|--------|-----|---------|-----|------------------------|--|--|--|--|--|--|--|--|--|
| Threshold Lin | Threshold Limit Value | | | | | | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | | | | | | | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | | | | | | | |
| TLV | BGR | 275 | 50 | 550 | 100 | SKIN | | | | | | | | | |
| AGW | DEU | 270 | 50 | 270 | 50 | | | | | | | | | | |
| MAK | DEU | 270 | 50 | 270 | 50 | | | | | | | | | | |
| 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 | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Hydrocarbons, C9, aromatics

| Threshold Limit | Value | | | | | | | | |
|------------------|--------------|----------------|-------|------------|----------|------------------------|----------|---------|----------|
| Туре | Country | ntry TWA/8h | | STEL/15min | | Remarks / Observations | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | GRC | 100 | | | | | | | |
| Health - Derived | no-effect le | evel - DNEL / | DMEL | | | | | | |
| | Ef | fects on consu | imers | | | Effects on worl | kers | | |
| Route of expo | sure Ac | ute Acu | ute | Chronic | Chronic | Acute local | Acute | Chronic | Chronic |
| | loc | cal sys | temic | local | systemic | | systemic | local | systemic |
| Oral | | | | VND | 11 | | | | |
| | | | | | mg/kg/d | | | | |
| Inhalation | | | | VND | 32 | | | VND | 150 |
| | | | | | mg/m3 | | | | mg/m3 |
| Skin | | | | VND | 11 | | | VND | 25 |
| | | | | | mg/kg/d | | | | mg/kg/d |



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

| | | | | n-Bu | tyl Acetate | | | | |
|-----------------|--------------|---------------|------------|---------|-------------|----------------|-------------|---------|----------|
| Threshold Lim | it Value | | | | - | | | | |
| Туре | Cour | ntry TW | 4/8h | STEL/15 | ōmin | Remarks / O | bservations | | |
| | | mg/ | m3 ppm | mg/m3 | ppm | | | | |
| TLV | BGR | 275 | 50 | 550 | 100 | SKIN | | | |
| AGW | DEU | 270 | 50 | 270 | 50 | | | | |
| MAK | DEU | 270 | 50 | 270 | 50 | | | | |
| 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-e | ffect cond | entration - | PNEC | | | | | | |
| Normal value | e in fresh v | water | | | | | 0,635 | mg/l | |
| Normal value | e in marine | e water | | | | | 0,0635 | ml/l | |
| Normal value | e for fresh | water sedim | nent | | | | 3,29 | mg/kg | |
| Normal value | e for marir | e water sed | iment | | | | 0,329 | mg/kg | |
| Normal value | e for water | , intermitten | t release | | | | 6,35 | mg/l | |
| Normal value | e of STP r | nicroorganis | ms | | | | 100 | mg/l | |
| Health - Derive | d no-effe | ct level - DN | IEL / DMEL | | | | | | |
| | | Effects on | consumers | | | Effects on wor | kers | | |
| Route of exp | osure | Acute | Acute | Chronic | Chronic | Acute local | Acute | Chronic | Chronic |
| | | local | systemic | local | systemic | | systemic | local | systemic |
| Oral | | | | VND | 1,67 | | | | |
| | | | | | mg/kg | | | | |
| Inhalation | | | | VND | 33 | 553,5 | VND | VND | 275 |
| | | | | | mg/m3 | mg/m3 | | | mg/m3 |
| Skin | | | | VND | 54,8 | | | VND | 153,5 |
| | | | | | mg/kg | | | | mg/kg |

| | | | | | N-BUTY | LACETATE | | |
|--------|-----------------------|---------|--------|-----|----------|----------|------------------------|--|
| Thresh | Threshold Limit Value | | | | | | | |
| Тур | e | Country | TWA/8h | | STEL/15r | nin | Remarks / Observations | |
| | | | mg/m3 | ppm | mg/m3 | ppm | | |
| TL۱ | / | BGR | 710 | | 950 | | | |
| AG | W | DEU | 300 | 62 | 600 (C) | 124 (C) | | |
| TL۱ | / | GRC | 710 | 150 | 950 | 200 | | |
| VLE | ΞP | ITA | 241 | 50 | 723 | 150 | | |
| TL\ | / | ROU | 241 | 50 | 723 | 150 | | |
| WE | EL | GBR | 724 | 150 | 966 | 200 | | |
| OE | L | EU | 241 | 50 | 723 | 150 | | |
| TL۱ | /-ACGIH | | | 50 | | 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 ; 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.

HAND PROTECTION

Protect hands with category III work gloves.

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



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SECTION 8. Exposure controls/personal protection / >>

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 Appearance | Value liquid | Information |
|---|---------------------------|--|
| Colour | transparent | Temperature: 25 °C |
| Odour | characteristic of solvent | Concentration: 25 % |
| 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 | $23 \le T \le 60$ °C | Concentration: 100 % |
| Auto-ignition temperature | not available | |
| Decomposition temperature | not available | |
| pH | not available | Reason for missing data:substance/mixture is |
| pii | not available | non-soluble (in water) |
| Kinematic viscosity | 882 mm2/s | Method:Converting Formula from Dynamic |
| | | Viscosity & Density |
| | | Temperature: 25 °C |
| Dynamic viscosity | 81 KU | Method:ASTM D 562-05 |
| | | Temperature: 25 °C |
| Solubility | not available | |
| Partition coefficient: n-octanol/water | not available | |
| Vapour pressure | not available | |
| Density and/or relative density | 1,02 g/cm3 | Method:ISO 2811 |
| | , G | Temperature: 25 °C |
| Relative vapour density | not available | • |
| Particle characteristics | not applicable | |
| | | |
| | | |
| 9.2. Other information | | |
| | | |
| 9.2.1. Information with regard to physical hazard o | lasses | |
| Information not available | | |
| 9.2.2. Other safety characteristics | | |
| Total solids (250°C / 482°F) | 11.35 % | |
| | | |

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Formaldehyde

Decomposes under the effect of heat.

Acqueous solutions are stabilised with methanol but tend to polymerise over time.

Acetone



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Decomposes under the effect of heat.

2-Methoxy-1-Methylethyl Acetate

Stable in normal conditions of use and storage.

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

n-Butyl Acetate

Stable in normal conditions of use and storage. With the air it may slowly develop peroxides that explode with an increase in temperature.

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.

Xvlene

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

Formaldehvde

Risk of explosion on contact with: nitromethane,nitrogen dioxide,hydrogen peroxide,phenoles,performic acid,nitric acid.May polymerise on contact with: strong oxidising agents, alkalis. May react dangerously with: hydrochloric acid, magnesium carbonate, sodium hydroxide,perchloric acid,aniline.Forms explosive mixtures with: air.

Acetone

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline

hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric

acid, chloroform, peroxymonosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

2-Methoxy-1-Methylethyl Acetate

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

n-Butyl Acetate

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

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.

Formaldehyde

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

Acetone

Avoid exposure to: sources of heat,naked flames.

N-BUTYL ACETATE

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

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents, strong bases, strong acids.

Formaldehyde

Incompatible with: acids,alkalis,ammonia,tannin,strong oxidants,phenoles,copper salts,silver,iron.

Acetone

Incompatible with: acids,oxidising substances.

2-Methoxy-1-Methylethyl Acetate

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

When heated to decomposition releases: methanol, carbon monoxide.

n-Butyl Acetate

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

N-BUTYL ACETATE

Formaldehyde

Acetone

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.



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May develop: ketenes, irritant substances.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

2-Methoxy-1-Methylethyl Acetate

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

n-Butyl Acetate

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

Information on likely routes of exposure

Xylene

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

2-Methoxy-1-Methylethyl Acetate WORKERS: inhalation; contact with the skin.

n-Butyl Acetate WORKERS: inhalation; contact with the skin.

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

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

2-Methoxy-1-Methylethyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

n-Butyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

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

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.

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).

> 5 mg/l

> 20 mg/l

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture:

@ EPY 11.5.1 - SDS 1004.14



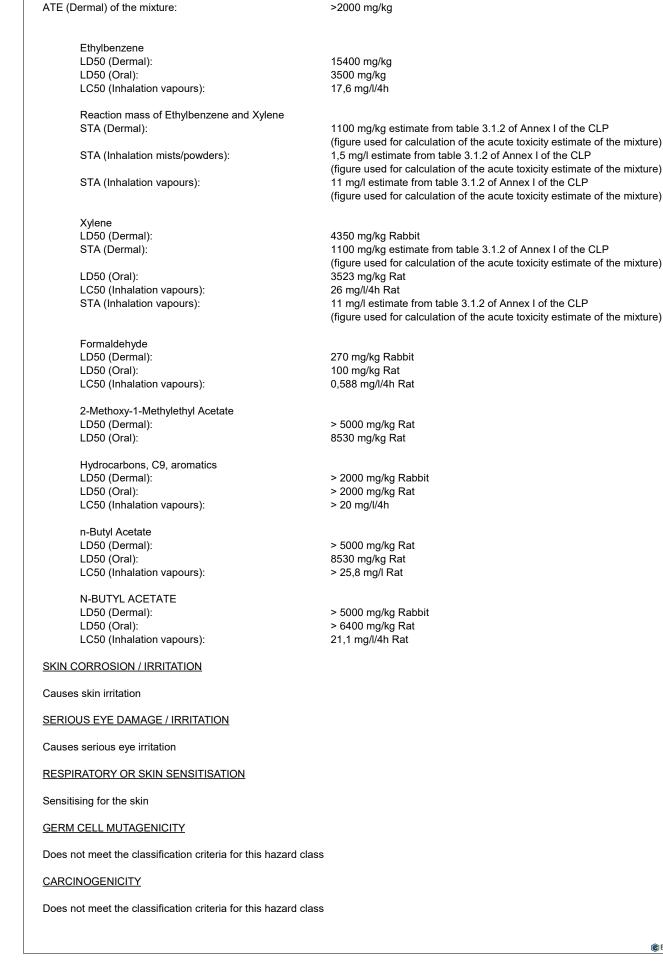
SECTION 11. Toxicological information ... / >>

DRUCKFARBEN HELLAS SA

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Not classified (no significant component)

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SECTION 11. Toxicological information ... / >>

Xylene

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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.

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

| Ethylbenzene LC50 - for Fish | 5,1 mg/l/96h Atlantic silverside (Menidia menidia) |
|---|--|
| Hydrocarbons, C9, aromatics LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants | > 1 mg/l/96h > 1 mg/l/48h > 1 mg/l/72h |
| 12.2. Persistence and degradability | |
| Xylene Solubility in water Rapidly degradable | 100 - 1000 mg/l |
| Formaldehyde Solubility in water Rapidly degradable | 55000 mg/l |
| Acetone Rapidly degradable | |
| 2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable | > 10000 mg/l |
| Hydrocarbons, C9, aromatics Rapidly degradable | |
| n-Butyl Acetate Solubility in water Rapidly degradable | > 10000 mg/l |
| N-BUTYL ACETATE Solubility in water | 1000 - 10000 mg/l |
| | |



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SECTION 12. Ecological information ... / >>

12.3. Bioaccumulative potential

| | Xylene Partition coefficient: n-octanol/water BCF | 3,12 25,9 |
|----|---|--------------|
| | Formaldehyde Partition coefficient: n-octanol/water BCF | 0,35 < 1 |
| | Acetone Partition coefficient: n-octanol/water BCF | -0,23 3 |
| | 2-Methoxy-1-Methylethyl Acetate Partition coefficient: n-octanol/water | 1,2 |
| | n-Butyl Acetate Partition coefficient: n-octanol/water | 1,2 |
| | N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF | 2,3 15,3 |
| 12 | 2.4. Mobility in soil | |
| | Xylene Partition coefficient: soil/water | 2,73 |
| | Formaldehyde | |

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%.

1.202

12.6. Endocrine disrupting properties

Partition coefficient: soil/water

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: 1866



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SECTION 14. Transport information ... / >>

14.2. UN proper shipping name

| ADR / RID: | RESIN SOLUTION |
|------------|----------------|
| IMDG: | RESIN SOLUTION |
| IATA: | RESIN SOLUTION |

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 Limited Quantities: 5 L Tunnel restriction code: (D/E) Special provision: -EMS: F-E, <u>S-E</u> IMDG: Limited Quantities: 5 L IATA: Maximum quantity: 220 L Packaging instructions: 366 Cargo: Passengers: Maximum quantity: 60 L Packaging instructions: 355 Special provision: A3

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

P5c

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

| TTOQUCE | | |
|---------------------|--------|------------------------------|
| Point | 3 - 40 | |
| Contained substance | | |
| Point | 75 | |
| Point | 72 | Formaldehyde |
| | | REACH Reg.: 01-2119488953-20 |
| | | |
| | 10 11 | |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

<u>Substances in Candidate List (Art. 59 REACH)</u> 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 ΕN



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SECTION 15. Regulatory information ... / >>

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:

| Flow Lin 2 | Flammable liquid, category 2 |
|------------------------------|--|
| Flam. Liq. 2 Flam. Liq. 3 | Flammable liquid, category 3 |
| Carc. 1B | Carcinogenicity, category 1B |
| | |
| Muta. 2 | Germ cell mutagenicity, category 2 |
| Repr. 2 | Reproductive toxicity, category 2 |
| Acute Tox. 2 | Acute toxicity, category 2 |
| Acute Tox. 3 | Acute toxicity, 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 |
| Skin Corr. 1B | Skin corrosion, category 1B |
| 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 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Skin Sens. 1A | Skin sensitization, category 1A |
| 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 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H350 | May cause cancer. |
| H341 | Suspected of causing genetic defects. |
| H361f | Suspected of damaging fertility. |
| H330 | Fatal if inhaled. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| 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. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | 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. |
| EUH210 | Safety data sheet available on request. |
| | |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road



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SECTION 16. Other information ... / >>

- 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
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- _____
- The Merck Index. 10th Edition - Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health



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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.