

Safety Data Sheet according to Regulation (EC) No 1907/2006

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Pattex Kraftkleber Classic

SDS No. : 390436 V004.0 Revision: 13.06.2018 printing date: 01.02.2019 Replaces version from: 04.01.2018

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

1.1. Product identifier

Pattex Kraftkleber Classic

Contains:

Ethyl acetate Methylcyclohexane

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

Contact adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

| Phone: | +44 (1442) 278000 |
|----------|-------------------|
| Fax-no.: | +44 (1442) 278071 |

ua-productsafety.uk@henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY-Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| Classification (CLP): | |
|---|------------|
| Flammable liquids | Category 2 |
| H225 Highly flammable liquid and vapor. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Target organ: Central Nervous System | |
| Chronic hazards to the aquatic environment | Category 2 |
| H411 Toxic to aquatic life with long lasting effects. | |

| 2.2. Label elements | |
|--|--|
| Label elements (CLP): | |
| Hazard pictogram: | |
| Signal word: | Danger |
| Hazard statement: | H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. |
| Supplemental information | Contains Colophony. May produce an allergic reaction. |
| Precautionary statement: | P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. |
| Precautionary statement: Prevention | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist/vapours. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection. |
| Precautionary statement: Storage | P403 Store in a well-ventilated place. |
| Precautionary statement: Disposal | P501 Dispose of contents/container in accordance with national regulation. |

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description: Adhesive Base substances of preparation: aliphatic hydrocarbons

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|--|--|-----------|--|
| Ethyl acetate 141-78-6 | 205-500-4 01-2119475103-46 | 20- 40 % | Flam. Liq. 2 H225 STOT SE 3 H336 Eye Irrit. 2 H319 |
| Methylcyclohexane 108-87-2 | 203-624-3 01-2119486992-20 | 25- 40 % | Flam. Liq. 2 H225 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411 |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | 295-763-1, 926- 605-8 01-2119486291-36 | 5- < 10 % | Flam. Liq. 2 H225 Asp. Tox. 1 H304 STOT SE 3 H336 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | 295-763-1, 921- 024-6 01-2119475514-35 | 1- < 5% | Flam. Liq. 2 H225 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 93924-37-9 | 300-230-4 01-2119475515-33 | 1- < 5 % | Asp. Tox. 1 H304 Skin Irrit. 2 H315 Flam. Liq. 2 H225 STOT SE 3; Inhalation H336 Aquatic Chronic 2 H411 |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | 01-2119475514-35 01-2119484651-34 | 1-< 5% | Flam. Liq. 2 H225 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411 |
| zinc oxide 1314-13-2 | 215-222-5 01-2119463881-32 | 0,1-< 1 % | Aquatic Chronic 1 H410 Aquatic Acute 1 H400 |
| Colophony 8050-09-7 | 232-475-7 01-2119480418-32 | 0,1-< 1 % | Skin Sens. 1 H317 |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | 271-867-2 01-2119496062-39 | 0,1-< 1% | Aquatic Chronic 4 H413 Repr. 2 H361d |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed Causes serious eye irritation.

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons: High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus. Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Danger of slipping on spilled product. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13. See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains. During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices that are the processing and drying after adhesion her processing and the processing and drying after adhesion her processing and the processing and drying after adhesion her processing and the processing and drying after adhesion her processing and the processing and drying after adhesion her processing and the processing and the processing and drying after adhesion her processing and the proc

electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices. Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container.

Close the container carefully after use and store it at a good ventilated place. Avoid strictly temperatures below + 5 °C and above + 50 °C. Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s) Contact adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

| Ingredient [Regulated substance] | ррт | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|--------------------------------------|---|-----------------|
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 400 | | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 200 | | Time Weighted Average (TWA): | | EH40 WEL |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 200 | 734 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 400 | 1.468 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE (AS MG), FUME AND RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE (AS MG), INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME] | | 0,05 | Time Weighted Average (TWA): | | EH40 WEL |
| Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME] | | 0,15 | Short Term Exposure Limit (STEL): | | EH40 WEL |

Occupational Exposure Limits

Valid for Ireland

| Ingredient [Regulated substance] | ррт | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|--------------------------------------|---|-----------------|
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 200 | | Time Weighted Average (TWA): | | IR_OEL |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 400 | | Short Term Exposure Limit (STEL): | | IR_OEL |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 200 | 734 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 400 | 1.468 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Methylcyclohexane 108-87-2 [METHYLCYCLOHEXANE] | 400 | 1.600 | Time Weighted Average (TWA): | | IR_OEL |
| Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, TOTAL INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, FUME] | | 10 | Short Term Exposure Limit (STEL): | | IR_OEL |
| Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Magnesium oxide 1309-48-4 | | 5 | Time Weighted Average (TWA): | | IR_OEL |

| [MAGNESIUM OXIDE, FUME] | | | |
|---|------|--------------------------------------|--------|
| Zinc oxide 1314-13-2 [ZINC OXIDE, FUME (RESPIRABLE FRACTION)] | 2 | Time Weighted Average (TWA): | IR_OEL |
| Zinc oxide 1314-13-2 [ZINC OXIDE, FUME (RESPIRABLE FRACTION)] | 10 | Short Term Exposure Limit (STEL): | IR_OEL |
| Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)] | 0,05 | Time Weighted Average (TWA): | IR_OEL |
| Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)] | 0,15 | Short Term Exposure Limit (STEL): | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | Value | | | Remarks |
|---------------------------|------------------------------|--------------------|------------|-------|------------|--------|---------|
| | | periou | mg/l | ppm | mg/kg | others | |
| Ethyl acetate | aqua | | 0,26 mg/l | FF | 8 | | |
| 141-78-6 | (freshwater) | | 0,20 mg/1 | | | | |
| Ethyl acetate | aqua (marine | | 0,026 mg/l | | | | |
| 141-78-6 | water) | | 0,020 mg i | | | | |
| Ethyl acetate | aqua | | 1,65 mg/l | | | | |
| 141-78-6 | (intermittent releases) | | 1,05 mg/1 | | | | |
| Ethyl acetate | sewage | | 650 mg/l | | | | |
| 141-78-6 | treatment plant (STP) | | U | | | | |
| Ethyl acetate | sediment | | | | 1,25 mg/kg | | |
| 141-78-6 | (freshwater) | | | | | | |
| Ethyl acetate | sediment | | | | 0,125 | | |
| 141-78-6 | (marine water) | | | | mg/kg | | |
| Ethyl acetate 141-78-6 | oral | | | | 200 mg/kg | | |
| Ethyl acetate 141-78-6 | soil | | | | 0,24 mg/kg | | |
| zinc oxide | aqua | | 0,0206 | | | | |
| 1314-13-2 | (freshwater) | | mg/l | | | | |
| zinc oxide | aqua (marine | | 0,0061 | | | | |
| 1314-13-2 | water) | | mg/l | | | | |
| zinc oxide | sewage | | 0,1 mg/l | | | | |
| 1314-13-2 | treatment plant (STP) | | *,8 | | | | |
| zinc oxide | sediment | | | | 117,8 | | |
| 1314-13-2 | (freshwater) | | | | mg/kg | | |
| zinc oxide | sediment | | | | 56,5 mg/kg | | |
| 1314-13-2 | (marine water) | | | | | | |
| zinc oxide | soil | | | | 35,6 mg/kg | | |
| 1314-13-2 | | | | | | | |
| zinc oxide | Air | | | | | | |
| 1314-13-2 | | | | | | | |
| Colophony 8050-09-7 | aqua (freshwater) | | 0,002 mg/l | | | | |
| Colophony | aqua (marine | | 0,0002 | | | | |
| 8050-09-7 | water) | | mg/l | | | | |
| Colophony | sediment | | 8 - | | 0,007 | | |
| 8050-09-7 | (freshwater) | | | | mg/kg | | |
| Colophony | sediment | | 1 | 1 | 0.001 | 1 | |
| 8050-09-7 | (marine water) | | | | mg/kg | | |
| Colophony 8050-09-7 | soil | | | | 0 mg/kg | | |
| Colophony | sewage | | 1000 mg/l | 1 | | 1 | |
| 8050-09-7 | treatment plant (STP) | | | | | | |
| Colophony | aqua | | 0,016 mg/l | | | 1 | |
| 8050-09-7 | (intermittent releases) | | , | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|---------------------|----------------------|--|------------------|-------------|---------|
| Ethyl acetate 141-78-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 1468 mg/m3 | |
| Ethyl acetate 141-78-6 | Workers | inhalation | Acute/short term exposure - local effects | | 1468 mg/m3 | |
| Ethyl acetate 141-78-6 | Workers | dermal | Long term exposure - systemic effects | | 63 mg/kg | |
| Ethyl acetate 141-78-6 | Workers | inhalation | Long term exposure - systemic effects | | 734 mg/m3 | |
| Ethyl acetate 141-78-6 | Workers | inhalation | Long term exposure - local effects | | 734 mg/m3 | |
| Ethyl acetate 141-78-6 | General population | Inhalation | Acute/short term exposure - systemic effects | | 734 mg/m3 | |
| Ethyl acetate 141-78-6 | General population | inhalation | Acute/short term exposure - local effects | | 734 mg/m3 | |
| Ethyl acetate 141-78-6 | General population | dermal | Long term exposure - systemic effects | | 37 mg/kg | |
| Ethyl acetate 141-78-6 | General population | inhalation | Long term exposure - systemic effects | | 367 mg/m3 | |
| Ethyl acetate 141-78-6 | General population | oral | Long term exposure - systemic effects | | 4,5 mg/kg | |
| Ethyl acetate 141-78-6 | General population | inhalation | Long term exposure - local effects | | 367 mg/m3 | |
| Methylcyclohexane 108-87-2 | Workers | dermal | Long term exposure - systemic effects | | 773 mg/kg | |
| Methylcyclohexane 108-87-2 | Workers | Inhalation | Long term exposure - systemic effects | | 2035 mg/m3 | |
| Methylcyclohexane 108-87-2 | General population | dermal | Long term exposure - systemic effects | | 699 mg/kg | |
| Methylcyclohexane 108-87-2 | General population | Inhalation | Long term exposure - systemic effects | | 608 mg/m3 | |
| Methylcyclohexane 108-87-2 | General population | oral | Long term exposure - systemic effects | | 699 mg/kg | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | Workers | dermal | Long term exposure - systemic effects | | 13964 mg/kg | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | Workers | inhalation | Long term exposure - systemic effects | | 5306 mg/m3 | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | General population | dermal | Long term exposure - systemic effects | | 1377 mg/kg | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | General population | inhalation | Long term exposure - systemic effects | | 1131 mg/m3 | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | General population | oral | Long term exposure - systemic effects | | 1301 mg/kg | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | | dermal | Long term exposure - systemic effects | | 773 mg/kg | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | | inhalation | Long term exposure - systemic effects | | 2035 mg/m3 | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | General population | dermal | Long term exposure - | | 699 mg/kg | |

| 92128-66-0 | 1 | 1 | systemic effects | 1 1 | |
|--|--------------------|------------|--------------------------------|------------|--|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, | General | inhalation | Long term | 608 mg/m3 | |
| cyclics, <5% n-hexane | population | | exposure - | | |
| 92128-66-0 | | | systemic effects | | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, | | oral | Long term | 699 mg/kg | |
| cyclics, <5% n-hexane | population | | exposure - | | |
| 92128-66-0 Hydrocarbons, C7, n-alkanes, isoalkanes, | Workers | dermal | systemic effects Long term | 300 mg/kg | |
| cyclics | workers | dermai | exposure - | 500 mg/kg | |
| 93924-37-9 | | | systemic effects | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, | Workers | Inhalation | Long term | 2085 mg/m3 | |
| cyclics | | | exposure - | - | |
| 93924-37-9 | | | systemic effects | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, | General | dermal | Long term | 149 mg/kg | |
| cyclics 93924-37-9 | population | | exposure - systemic effects | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, | General | oral | Long term | 149 mg/kg | |
| cyclics | population | orai | exposure - | ity mg/kg | |
| 93924-37-9 | F -F | | systemic effects | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, | General | Inhalation | Long term | 447 mg/m3 | |
| cyclics | population | | exposure - | | |
| 93924-37-9 | 337 1 | 1 1 | systemic effects | 772 1 | |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | Workers | dermal | Long term exposure - | 773 mg/kg | |
| 0+/+2-49-0 | | | exposure - systemic effects | | |
| Naphtha, hydrotreated light, <0,1% benzene | General | oral | Long term | 699 mg/kg | |
| 64742-49-0 | population | | exposure - | | |
| | 1 1 | | systemic effects | | |
| Naphtha, hydrotreated light, <0,1% benzene | General | dermal | Long term | 699 mg/kg | |
| 64742-49-0 | population | | exposure - | | |
| | C 1 | T 1 1 4 | systemic effects | 600 / 2 | |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | General population | Inhalation | Long term exposure - | 608 mg/m3 | |
| 04742-49-0 | population | | systemic effects | | |
| Naphtha, hydrotreated light, <0,1% benzene | Workers | Inhalation | Long term | 2035 mg/m3 | |
| 64742-49-0 | | | exposure - | | |
| | | | systemic effects | | |
| zinc oxide | Workers | Inhalation | Long term | 5 mg/m3 | |
| 1314-13-2 | | | exposure - | | |
| zinc oxide | Workers | dermal | systemic effects Long term | 83 mg/kg | |
| 1314-13-2 | workers | dermai | exposure - | 85 mg/kg | |
| | | | systemic effects | | |
| zinc oxide | Workers | inhalation | Long term | 0,5 mg/m3 | |
| 1314-13-2 | | | exposure - local | - | |
| | - | | effects | | |
| zinc oxide | General | Inhalation | Long term | 2,5 mg/m3 | |
| 1314-13-2 | population | | exposure - systemic effects | | |
| zinc oxide | General | dermal | Long term | 83 mg/kg | |
| 1314-13-2 | population | | exposure - | | |
| | - | | systemic effects | | |
| zinc oxide | General | oral | Long term | 0,83 mg/kg | |
| 1314-13-2 | population | | exposure - | | |
| Colophony | Workers | inhalation | systemic effects Long term | 117 mg/m3 | |
| 8050-09-7 | workers | minalation | exposure - | 117 mg/m3 | |
| | | | systemic effects | | |
| Colophony | Workers | dermal | Long term | 17 mg/kg | |
| 8050-09-7 | | | exposure - | | |
| | | | systemic effects | | |
| Colophony | General | inhalation | Long term | 35 mg/m3 | |
| 8050-09-7 | population | | exposure - systemic effects | | |
| Colophony | General | dermal | Long term | 10 mg/kg | |
| 8050-09-7 | population | actinui | exposure - | | |
| | 1 1 | | systemic effects | | |
| Colophony | General | oral | Long term | 10 mg/kg | |
| 8050-09-7 | population | | exposure - | | |
| | | | systemic effects | | |

8.2. Exposure controls:

Respiratory protection: Suitable breathing mask when there is inadequate ventilation. Combination filter: ABEKP (EN 14387) This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374. Perforation time > 10 minutes

material thickness > 0.4 mm

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection: Goggles which can be tightly sealed. Protective eye equipment should conform to EN166.

Skin protection: Suitable protective clothing Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | liquid |
|----------------------------|-------------------------------------|
| | highly viscous |
| | beige |
| Odor | Solvent |
| Odour threshold | No data available / Not applicable |
| | |
| рН | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 75 °C (167 °F) |
| Flash point | < -10 °C (< 14 °F); DIN EN ISO 3679 |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | |
| lower | 1,4 %(V) |
| upper | 8,60 %(V) |
| Vapour pressure | 120 mbar |
| (20 °C (68 °F)) | |
| Vapour pressure | 150 mbar |
| (25 °C (77 °F)) | |
| Vapour pressure | 430 mbar |
| (50 °C (122 °F)) | |
| Vapour pressure | 860 mbar |
| (70 °C (158 °F)) | |
| Relative vapour density: | No data available / Not applicable |
| | |

| Density | 0,84 - 0,88 g/ml |
|--|------------------------------------|
| (20 °C (68 °F)) | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Partially soluble |
| (23 °C (73.4 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | 1.700 - 2.300 mPa.s |
| (Brookfield; 20 °C (68 °F); speed of rotation: | |
| 50 min-1; Spindle No: 4) | |
| Viscosity (kinematic) | > 1.000 mm2/s |
| (20 °C (68 °F);) | |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |
| | |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Species | Method |
|--|-------|---------------|---------|--|
| CAS-No. | type | | | |
| Ethyl acetate 141-78-6 | LD50 | 6.100 mg/kg | rat | not specified |
| Methylcyclohexane 108-87-2 | LD50 | > 5.840 mg/kg | rat | not specified |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 93924-37-9 | LD50 | > 5.840 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| zinc oxide 1314-13-2 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Colophony 8050-09-7 | LD50 | 2.800 mg/kg | rat | not specified |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Species | Method |
|--------------------------|-------|----------------|---------|--|
| CAS-No. | type | | | |
| Ethyl acetate | LD50 | > 20.000 mg/kg | rabbit | Draize Test |
| 141-78-6 | | | | |
| Hydrocarbons, C6-C7, | LD50 | > 2.000 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| isoalkanes, cyclics, <5% | | | | |
| n-hexane | | | | |
| 92128-66-0 | | | | |
| Hydrocarbons, C6-C7, n- | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| alkanes, isoalkanes, | | | | |
| cyclics, <5% n-hexane | | | | |
| 92128-66-0 | | | | |
| Hydrocarbons, C7, n- | LD50 | > 2.920 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| alkanes, isoalkanes, | | | | |
| cyclics | | | | |
| 93924-37-9 | | | | |
| zinc oxide | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 1314-13-2 | | 0.0 | | |
| Colophony | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 8050-09-7 | | 0.0 | | |
| Phenol, 4-methyl-, | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| reaction products with | | 0.0 | | |
| dicyclopentadiene and | | | | |
| isobutylene | | | | |
| 68610-51-5 | | | | |

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Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation. In the event of protracted or repeated exposure, damage to health cannot be excluded.

| Hazardous substances | Value | Value | Test atmosphere | - | Species | Method |
|----------------------|-------|-------------|-----------------|------|---------|---------------------------|
| CAS-No. | type | | | time | | |
| Ethyl acetate | LC50 | 200 mg/l | | 1 h | rat | not specified |
| 141-78-6 | | - | | | | _ |
| Hydrocarbons, C7, n- | LC50 | > 23,3 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute |
| alkanes, isoalkanes, | | _ | - | | | Inhalation Toxicity) |
| cyclics | | | | | | |
| 93924-37-9 | | | | | | |
| zinc oxide | LC50 | > 5,7 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute |
| 1314-13-2 | | | | | | Inhalation Toxicity) |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Result | Exposure | Species | Method |
|--------------------------|----------------|----------|---------|--|
| CAS-No. | | time | _ | |
| Ethyl acetate | slightly | 24 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 141-78-6 | irritating | | | |
| Hydrocarbons, C6-C7, | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| isoalkanes, cyclics, <5% | | | | |
| n-hexane | | | | |
| 92128-66-0 | | | | |
| Hydrocarbons, C7, n- | irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| alkanes, isoalkanes, | | | | |
| cyclics | | | | |
| 93924-37-9 | | | | |
| zinc oxide | not irritating | | rabbit | not specified |
| 1314-13-2 | | | | |
| Colophony | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 8050-09-7 | | | | |
| Phenol, 4-methyl-, | not irritating | 4 h | rabbit | EPA Guideline |
| reaction products with | | | | |
| dicyclopentadiene and | | | | |
| isobutylene | | | | |
| 68610-51-5 | | | | |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|------------------------|------------------|---------|---|
| Ethyl acetate 141-78-6 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 93924-37-9 | not irritating | | rabbit | other guideline: |
| zinc oxide 1314-13-2 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Colophony 8050-09-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | slightly irritating | 24 h | rabbit | EPA Guideline |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result | Test type | Species | Method |
|------------------------|-----------------|-------------------------|------------|---|
| CAS-No. | | | | |
| Ethyl acetate | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 141-78-6 | | test | | |
| zinc oxide | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 1314-13-2 | | test | | |
| Phenol, 4-methyl-, | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| reaction products with | | test | | |
| dicyclopentadiene and | | | | |
| isobutylene | | | | |
| 68610-51-5 | | | | |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|-----------|--|--|---------------------|--|
| Ethyl acetate 141-78-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethyl acetate 141-78-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| zinc oxide 1314-13-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| zinc oxide 1314-13-2 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| zinc oxide 1314-13-2 | ambiguous | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Colophony 8050-09-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Ethyl acetate 141-78-6 | negative | oral: gavage | | hamster, Chinese | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| zinc oxide 1314-13-2 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result / Value | Test type | Route of | Species | Method |
|----------------------|---------------------|-----------|-------------|---------|------------------|
| CAS-No. | | | application | | |
| Ethyl acetate | NOAEL P 1.500 mg/kg | other | inhalation: | rat | other guideline: |
| 141-78-6 | | | vapour | | |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|-------------------|----------------------|--|---------|--|
| Ethyl acetate 141-78-6 | NOAEL 900 mg/kg | oral: gavage | 90 d daily | rat | EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |
| Ethyl acetate 141-78-6 | NOAEL 1,28 mg/l | inhalation | 94 d continuous | rat | EPA OTS 798.2450 (90- Day Inhalation Toxicity) |
| zinc oxide 1314-13-2 | NOAEL 31,52 mg/kg | oral: feed | 13 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | NOAEL 500 ppm | oral: feed | 90 Days Daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---|--------------------------------|-------------|---------------|---------|
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 93924-37-9 | 0,5 mm2/s | 20 °C | not specified | |

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|---------------|---------------|---------------------------------|---|
| CAS-No. | type | | - | - | |
| Ethyl acetate | LC50 | 270 mg/l | 48 h | Leuciscus idus melanotus | DIN 38412-15 |
| 141-78-6 | | | | | |
| Methylcyclohexane 108-87-2 | LC 50 | 7,0 mg/l | 24 h | Striped bass (Morone saxatilis) | |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | LL50 | 12 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | LC50 | > 1 - 10 mg/l | | | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| zinc oxide 1314-13-2 | LC50 | 0,142 mg/l | 96 h | Thymallus arcticus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| zinc oxide 1314-13-2 | NOEC | 0,44 mg/l | 72 d | Oncorhynchus mykiss | other guideline: |
| Colophony 8050-09-7 | LC50 | | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | LC50 | | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | NOELR | | 34 d | Pimephales promelas | OECD Guideline 210 (fish early lite stage toxicity test) |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------|---------------|-------------------|--|
| Ethyl acetate 141-78-6 | EC50 | 164 mg/l | 48 h | Daphnia cucullata | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Methylcyclohexane 108-87-2 | EC50 | 147.000 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | EL50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | EC50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 93924-37-9 | EC50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | EC50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| zinc oxide 1314-13-2 | EC50 | 1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Colophony 8050-09-7 | EL50 | | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Phenol, 4-methyl-, reaction | EC50 | | 48 h | Daphnia magna | OECD Guideline 202 |

| products with dicyclopentadiene and isobutylene 68610-51-5 | | | (Daphnia sp. Acute Immobilisation Test) |
|---|--|--|--|
|---|--|--|--|

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value | Value | Exposure time | Species | Method |
|--|--------------|------------|---------------|---------------|--|
| Ethyl acetate 141-78-6 | type NOEC | 2,4 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | NOEC | 0,17 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 93924-37-9 | NOEC | 0,17 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| zinc oxide 1314-13-2 | NOEC | 0,058 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | NOELR | | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|---------------|---------------|---|--|
| CAS-No. | type | | | | |
| Ethyl acetate 141-78-6 | EC50 | > 2.000 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethyl acetate 141-78-6 | NOEC | 2.000 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | EL50 | 55 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | NOEL | 30 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | EC50 | > 1 - 10 mg/l | | | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| zinc oxide 1314-13-2 | NOEC | 0,017 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| zinc oxide 1314-13-2 | EC50 | 0,17 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Colophony 8050-09-7 | EL50 | | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Colophony 8050-09-7 | NOELR | | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | NOEC | | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | EC50 | | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|----------------------|-------|------------|---------------|-------------------------------|------------------------------|
| CAS-No. | type | | | | |
| Ethyl acetate | EC10 | 2.900 mg/l | 18 h | | not specified |
| 141-78-6 | | - | | | _ |
| zinc oxide | IC50 | 5,2 mg/l | 3 h | not specified | OECD Guideline 209 |
| 1314-13-2 | | - | | _ | (Activated Sludge, |
| | | | | | Respiration Inhibition Test) |
| Colophony | EC20 | | 3 h | activated sludge of a | OECD Guideline 209 |
| 8050-09-7 | | | | predominantly domestic sewage | (Activated Sludge, |
| | | | | | Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|---------------------------------|-----------|---------------|------------------|---|
| Ethyl acetate 141-78-6 | readily biodegradable | aerobic | 100 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | readily biodegradable | aerobic | 98 % | 28 day | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0 | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 93924-37-9 | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | readily biodegradable | aerobic | 89 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Colophony 8050-09-7 | readily biodegradable | aerobic | 71 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | not inherently biodegradable | aerobic | 1 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|-----------|-------------|---|
| Ethyl acetate 141-78-6 | 0,6 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Methylcyclohexane 108-87-2 | 3,61 | | not specified |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 | 3,6 | 20 °C | other guideline: |
| Naphtha, hydrotreated light, <0,1% benzene 64742-49-0 | 4 - 5,7 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Colophony 8050-09-7 | > 3 - 6,2 | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 | 7,56 | 30 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances | PBT / vPvB |
|---|--|
| CAS-No. | |
| Ethyl acetate | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 141-78-6 | Bioaccumulative (vPvB) criteria. |
| Methylcyclohexane | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 108-87-2 | Bioaccumulative (vPvB) criteria. |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| n-hexane | Bioaccumulative (vPvB) criteria. |
| 92128-66-0 | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| cyclics, <5% n-hexane | Bioaccumulative (vPvB) criteria. |
| 92128-66-0 | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| cyclics | Bioaccumulative (vPvB) criteria. |
| 93924-37-9 | |
| Naphtha, hydrotreated light, <0,1% benzene | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 64742-49-0 | Bioaccumulative (vPvB) criteria. |
| zinc oxide | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not |
| 1314-13-2 | be conducted for inorganic substances. |
| Colophony | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 8050-09-7 | Bioaccumulative (vPvB) criteria. |
| Phenol, 4-methyl-, reaction products with | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| dicyclopentadiene and isobutylene | Bioaccumulative (vPvB) criteria. |
| 68610-51-5 | |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages: Use packages for recycling only when totally empty.

Waste code 080409

SECTION 14: Transport information

| 14.1. | UN number | |
|-------|----------------|---|
| | ADR | 1133 |
| | RID | 1133 |
| | ADN | 1133 |
| | IMDG | 1133 |
| | IATA | 1133 |
| | IATA | 1155 |
| 14.2. | UN proper sl | hipping name |
| | ADR | ADHESIVES |
| | RID | ADHESIVES |
| | ADN | ADHESIVES |
| | IMDG | ADHESIVES (Methylcyclohexane) |
| | IATA | Adhesives |
| 14.3. | Transport ha | zard class(es) |
| | ADR | 3 |
| | RID | 3 |
| | ADN | 3 |
| | IMDG | 3 |
| | IATA | 3 |
| | IAIA | 5 |
| 14.4. | Packing group | |
| | ADR | II |
| | RID | II |
| | ADN | II |
| | IMDG | II |
| | IATA | П |
| | | |
| 14.5. | Environment | tal hazards |
| | ADR | Environmentally Hazardous |
| | RID | Environmentally Hazardous |
| | ADN | Environmentally Hazardous |
| | IMDG | Marine pollutant |
| | IATA | not applicable |
| 14.6. | Special preca | nutions for user |
| | ADR | Special provision 640D Tunnelcode: (D/E) |
| | RID | Special provision 640D |
| | | |
| | ADN IMDG | Special provision 640D not applicable |
| | | |
| | IATA | not applicable |
| 14.7. | Transport in | bulk according to Annex II of Marpol and the IBC Code |
| | not applicable | 2 |
| | | |
| | | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture VOC content 80 %

VOC content (VOCV 814.018 VOC regulation CH)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

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.

H413 May cause long lasting harmful effects to aquatic life.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Annex - Exposure Scenarios:

Exposure Scenarios for ethyl acetate can be downloaded under the following link:

http://mymsds.henkel.com/mymsds/.490394..en.ANNEX_DE.19414935.0.DE.pdf

Alternatively they can be accessed on the internet site www.mymsds.henkel.com by entering number 490394.