

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

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TEROSON WX 180

SDS No. : 75576 V010.0 Revision: 11.11.2022 printing date: 24.12.2022 Replaces version from: 20.05.2019

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

1.1. Product identifier TEROSON WX 180

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

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA Henkelstr. 67 40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDS info. Adhesive @henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

| Flammable liquids | Category 3 |
|--|------------|
| H226 Flammable liquid and vapour. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Specific target organ toxicity - repeated exposure | Category 1 |
| H372 Causes damage to organs through prolonged or repeated exposure. | |
| 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: | |
|--------------------------------------|--|
| Contains | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |
| Signal word: | Danger |
| Hazard statement: | H226 Flammable liquid and vapour.H336 May cause drowsiness or dizziness.H372 Causes damage to organs through prolonged or repeated exposure.H411 Toxic to aquatic life with long lasting effects. |
| Supplemental information | EUH066 Repeated exposure may cause skin dryness or cracking. |
| Precautionary statement: | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.No smoking.P260 Do not breathe vapours.P273 Avoid release to the environment. |
| Precautionary statement: Response | P370+P378 In case of fire: Use CO2, dry chemical, or foam for extinction. |

2.3. Other hazards

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

The solvent vapors are heavier than air and may collect in high concentrations at floor level. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration $\geq 0.1\%$ and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration \geq the concentration limit that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M- factors and ATEs | Add. Information |
|--|---------------|--|---|---------------------|
| Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 01-2119463586-28 | 20- 40 % | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT RE 1, Inhalation, H372 STOT SE 3, H336 Aquatic Chronic 2, H411 | | |
| Kieselguhr 61790-53-2 231-545-4 | 5- < 10 % | STOT RE 2, Inhalation, H373 | | |
| Morpholine 110-91-8 203-815-1 01-2119496057-30 | 0,1-< 1% | Flam. Liq. 3, H226 Acute Tox. 4, Oral, H302 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Inhalation, H331 Skin Corr. 1B, H314 Repr. 2, H361fd | inhalation:ATE = 3 mg/l;vapour | EU OEL |

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

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact: Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

Vapors may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

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:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons: Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear protective equipment. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Avoid contact with skin and eyes. Keep unprotected persons away. Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water. Inform authorities in the event of product spillage to water courses or sewage systems.

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.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid open flames and sources of ignition. Use explosion proof electric equipment. Use only non-sparking tools. Ground/bond container and receiving equipment. Take precautionary measures against static discharge.

Hygiene measures:

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

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction. Store in a cool, frost-free place. Storage at 15 to 20°C is recommended.

7.3. Specific end use(s) Car polish

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|--|--|-----------------|
| Natural compound of quartz and kaolinite 1020665-14-8 | | 4 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silicon dioxide 61790-53-2 | | 4 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silicon dioxide 61790-53-2 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Morpholine 110-91-8 [MORPHOLINE] | 20 | 72 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Morpholine 110-91-8 [MORPHOLINE] | 10 | 36 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Morpholine 110-91-8 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Morpholine 110-91-8 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| Morpholine 110-91-8 | 10 | 36 | Exposure limit(s): | 2 | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental | Exposure | Value | | | | Remarks |
|--------------|-----------------|----------|-----------|-----|------------|--------|---------|
| | Compartment | period | | | | | |
| | | | mg/l | ppm | mg/kg | others | |
| Morpholine | aqua | | 0,1 mg/l | | | | |
| 110-91-8 | (freshwater) | | | | | | |
| Morpholine | aqua (marine | | 0,01 mg/l | | | | |
| 110-91-8 | water) | | _ | | | | |
| Morpholine | aqua | | 0,28 mg/l | | | | |
| 110-91-8 | (intermittent | | _ | | | | |
| | releases) | | | | | | |
| Morpholine | sediment | | | | 1,49 mg/kg | | |
| 110-91-8 | (freshwater) | | | | | | |
| Morpholine | sediment | | | | 0,149 | | |
| 110-91-8 | (marine water) | | | | mg/kg | | |
| Morpholine | Soil | | | | 0,239 | | |
| 110-91-8 | | | | | mg/kg | | |
| Morpholine | sewage | | 10 mg/l | | | | |
| 110-91-8 | treatment plant | | Ū. | | | | |
| | (STP) | | | | | | |

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------|-----------------------|----------------------|---|------------------|------------|---------|
| Morpholine 110-91-8 | Workers | Inhalation | Long term exposure - local effects | | 36 mg/m3 | |
| Morpholine 110-91-8 | Workers | dermal | Long term exposure - systemic effects | | 1,04 mg/kg | |
| Morpholine 110-91-8 | Workers | Inhalation | Long term exposure - systemic effects | | 91 mg/m3 | |
| Morpholine 110-91-8 | General population | oral | Long term exposure - systemic effects | | 6,3 mg/kg | |
| Morpholine 110-91-8 | General population | Inhalation | Long term exposure - local effects | | 3,2 mg/m3 | |
| Morpholine 110-91-8 | General population | dermal | Long term exposure - systemic effects | | 0,52 mg/kg | |
| Morpholine 110-91-8 | General population | Inhalation | Long term exposure - systemic effects | | 45 mg/m3 | |
| Morpholine 110-91-8 | General population | Inhalation | Acute/short term exposure - local effects | | 18 mg/m3 | |

Derived No-Effect Level (DNEL):

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Use only in well ventilated areas.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

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

Skin protection: Wear protective equipment. Protective clothing that covers arms and legs. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts. Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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

| Physical state | liquid |
|---|--|
| Delivery form | liquid |
| Colour | |
| Odor | light blue |
| | of hydrocarbons |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | 4 °C (39.2 °F) |
| Initial boiling point | 132 °C (269.6 °F)no method |
| (1.013 hPa) | |
| Flammability | Flammable liquid |
| Explosive limits | |
| lower | 0,46 %(V); |
| | Upper explosion limit not applicable for safe processing |
| | practices. |
| Flash point | 24 °C (75.2 °F); no method |
| Auto-ignition temperature | > 200 °C (> 392 °F) |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no |
| | organic peroxide and does not decompose under foreseen |
| | conditions of use |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic) | 2.300 mm2/s ;.no method |
| (40 °C (104 °F);) | |
| Viscosity, dynamic | 2.200 mPa.s viscosity, Brookfield |
| (; 40 °C (104 °F); speed of rotation: 10 min- | |
| 1) | |
| Flow cup viscosity | 40 s no method |
| (20 °C (68 °F); Type of cup: DIN-Cup; | |
| Nozzle: 4 mm no method) | |
| Solubility (qualitative) | Not miscible |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| | Mixture |
| Vapour pressure | 960 Pa |
| (20 °C (68 °F)) | |
| Vapour pressure | 4900 Pa |
| (50 °C (122 °F)) | |
| Density | 0,95 g/cm3 no method |
| (20 °C (68 °F)) | |
| Relative vapour density: | 1,02 |
| (20 °C) | · |
| Particle characteristics | Not applicable |
| | Product is a liquid |
| | · 1 · · |

9.2. Other information Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity Reacts with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

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

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 | | | |
| Hydrocarbons, C9-C10, | LD50 | > 15.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| n-alkanes, isoalkanes, | | | | |
| cyclics, aromatics (2- | | | | |
| 25%) | | | | |
| 1174921-73-3 | | | | |
| Morpholine | LD50 | 1.900 mg/kg | rat | BASF Test |
| 110-91-8 | | | | |

Acute dermal toxicity:

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

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---------------|---------------|---------|---------------|
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%) 1174921-73-3 | LD50 | > 3.700 mg/kg | rat | not specified |
| Morpholine 110-91-8 | LD50 | 500 mg/kg | rabbit | Draize Test |

Acute inhalative toxicity:

| Hazardous substances | Value | Value | Test atmosphere | Exposure | Species | Method |
|------------------------|--|------------|-----------------|----------|---------|------------------|
| CAS-No. | type | | | time | | |
| Morpholine 110-91-8 | LC50 | < 6,9 mg/l | vapour | 4 h | rat | not specified |
| Morpholine 110-91-8 | Acute toxicity estimate (ATE) | 3 mg/l | vapour | 4 h | | Expert judgement |

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

Skin corrosion/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 |
|---------------------------------|----------------|------------------|---------|---|
| Kieselguhr 61790-53-2 | not irritating | | | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Morpholine 110-91-8 | corrosive | 3 min | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

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 |
|---------------------------------|--------------------------|------------------|------------------------------|---|
| Kieselguhr 61790-53-2 | moderately irritating | | Chicken, egg, in vitro assay | Hen's Egg Test – Chorioallantoic Membrane (HET-CAM) |
| Morpholine 110-91-8 | corrosive | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

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

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---------------------------------|-----------------|--------------|------------|--------------|
| Morpholine 110-91-8 | not sensitising | Buehler test | guinea pig | Buehler test |

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 |
|---------------------------------|--|---|--|--------------------|---|
| Morpholine 110-91-8 | ambiguous | bacterial reverse mutation assay (e.g Ames test) | with and without | | Reverse Mutation Test |
| Morpholine 110-91-8 | negative with metabolic activation | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Morpholine 110-91-8 | negative | sister chromatid exchange assay in mammalian cells | with and without | | Sister Chromatid Exchange Assay |
| Morpholine 110-91-8 | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | without | | DNA damage and repair assay, UDS in mammalian cells |
| Morpholine 110-91-8 | negative | oral: gavage | | hamster, Syrian | Chromosome Aberration Test |

Carcinogenicity

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

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---------------------------------|------------------|----------------------|---|---------|-------------|--|
| Morpholine 110-91-8 | not carcinogenic | inhalation | 52 - 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

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

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---------------------------------|-------------------|--------------------|----------------------|---------|--|
| Morpholine 110-91-8 | NOAEL P 60 mg/kg | one- generation | oral: gavage | rat | OECD Guideline 443 (Extended One-Generation |
| | NOAEL F1 60 mg/kg | study | | | Reproductive Toxicity Study) |

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 |
|---------------------------------|-----------------|----------------------|--|---------|---------------|
| Morpholine 110-91-8 | LOAEL 500 mg/kg | oral: feed | 56 d daily | rat | not specified |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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 | | | | |
| Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 | LL50 | > 10 - 30 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Kieselguhr 61790-53-2 | LC50 | > 10.000 mg/l | | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Morpholine 110-91-8 | LC50 | > 100 mg/l | 96 h | Oryzias latipes | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (Daphnia):

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 | | | | |
| Hydrocarbons, C9-C10, n- | EL50 | > 10 - 22 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| alkanes, isoalkanes, cyclics, | | | | | (Daphnia sp. Acute |
| aromatics (2-25%) | | | | | Immobilisation Test) |
| 1174921-73-3 | | | | | |
| Kieselguhr | EC50 | > 10.000 mg/l | 24 h | Daphnia magna | OECD Guideline 202 |
| 61790-53-2 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |
| Morpholine | EC50 | 44,5 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 110-91-8 | | | | | (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 | Value | Value | Exposure time | Species | Method |
|-------------------------------|-------|------------|---------------|---------------|---------------------------|
| CAS-No. | type | | | | |
| Hydrocarbons, C9-C10, n- | NOEC | 0,097 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| alkanes, isoalkanes, cyclics, | | | | | magna, Reproduction Test) |
| aromatics (2-25%) | | | | | |
| 1174921-73-3 | | | | | |
| Morpholine | NOEC | 5 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| 110-91-8 | | | | | magna, Reproduction Test) |

Toxicity (Algae):

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 |
|--|---------------|------------|---------------|---------------------------------|--|
| Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 | EL50 | 4,1 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 | NOEC | 0,16 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Morpholine 110-91-8 | EC50 | 64,63 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Morpholine 110-91-8 | EC10 | 31,49 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

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 | | | | |
| Kieselguhr 61790-53-2 | EC0 | 10.000 mg/l | 30 min | | not specified |
| Morpholine 110-91-8 | EC20 | > 1.000 mg/l | 30 min | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|--------------------------|-----------|---------------|------------------|---|
| Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 | readily biodegradable | aerobic | 74,7 % | 28 day | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Morpholine 110-91-8 | inherently biodegradable | aerobic | 98 % | 31 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| Morpholine 110-91-8 | readily biodegradable | aerobic | 93 % | 25 d | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|-----------------------------------|---------------|-------------|-----------------|--|
| Morpholine 110-91-8 | > 0,3 - 2,8 | 42 d | | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the |
| | | | | | Degree of Bioconcentration in Fish) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---------------------------------|--------|-------------|--|
| Morpholine 110-91-8 | -2,55 | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---------------------------------|---|
| Morpholine 110-91-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

| ADR | 1993 1993 |
|--------------|--------------|
| RID ADN | 1993 |
| IMDG IATA | 1993 1993 |

14.2. UN proper shipping name

| ADR | FLAMMABLE LIQUID, N.O.S. (White spirit) |
|------|---|
| RID | FLAMMABLE LIQUID, N.O.S. (White spirit) |
| ADN | FLAMMABLE LIQUID, N.O.S. (White spirit) |
| IMDG | FLAMMABLE LIQUID, N.O.S. (White spirit) |
| IATA | Flammable liquid, n.o.s. (White spirit) |

14.3. Transport hazard class(es)

| ADR | 3 |
|------|---|
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |
| | |

14.4. Packing group

| ADR | III |
|------|-----|
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |
| | |

14.5. Environmental hazards

| Environmentally Hazardous |
|---------------------------|
| Environmentally Hazardous |
| Environmentally Hazardous |
| Marine pollutant |
| not applicable |
| |

14.6. Special precautions for user

| not applicable |
|-------------------|
| Tunnelcode: (D/E) |
| not applicable |
| not applicable |
| not applicable |
| not applicable |
| |

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable VOC content 38 % (2010/75/EU) (2010/75/EU)

VOC Paints and Varnishes (EU):

Product (sub)category:

This product is not a subject of the Directive 2004/42/EC

15.2. Chemical safety assessment A chemical safety assessment has not been carried out.

National regulations/information (Germany):

| WGK: | WGK 2: significantly water endangering (Ordinance on facilities for handling |
|-------------------------------|--|
| | substances that are hazardous to water (AwSV)) |
| | Classification according to AwSV, Annex 1 (5.2) |
| | |
| BG regulations, rules, infos: | |
| | |

| DO regulations, rules, milos. | |
|--------------------------------------|---|
| BG | data sheet: BGI 621 Solvents |
| Storage class according to TRGS 510: | 3 |
| General remarks (DE): | This product is in scope of the German regulation "ChemikalienVerbotsVerordnung" |

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:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

| ED: | Substance identified as having endocrine disrupting properties |
|-------------|--|
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very |
| | bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |

Further information:

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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.

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