



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

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TEROSON SB 412

SDS No. : 76892
V013.0

Revision: 24.02.2026

printing date: 25.02.2026

Replaces version from: 23.04.2025

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

1.1. Product identifier

TEROSON SB 412
UFI: VQV6-YX1X-Q20A-EM3J

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

Intended use:
adhesive and sealant

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

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com 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 solids | Category 1 |
| H228 Flammable solid. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Respiratory sensitizer | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Target organ: Central nervous system | |
| Acute hazards to the aquatic environment | Category 1 |
| H400 Very toxic to aquatic life. | |
| Chronic hazards to the aquatic environment | Category 1 |
| H410 Very toxic to aquatic life with long lasting effects. | |

2.2. Label elements**Label elements (CLP):****Hazard pictogram:****Contains**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

rosin

cyclohexane

Rubber, natural

Signal word:

Danger

Hazard statement:

H228 Flammable solid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement:
Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapors.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

**Precautionary statement:
Response**

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P370+P378 In case of fire: Use CO₂, dry chemical, or foam for extinction.**2.3. Other hazards**

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 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 No REACH-Reg. No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|--|---------------|---|---|------------------|
| zinc oxide 1314-13-2 215-222-5 01-2119463881-32 | 20- < 25 % | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M acute = 1 M chronic = 1 | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- 01-2119475514-35 | 10- < 20 % | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 | | |
| rosin 8050-09-7 232-475-7 01-2119480418-32 | 10- < 20 % | Skin Sens. 1, H317 | | |
| cyclohexane 110-82-7 203-806-2 01-2119463273-41 | 10- < 20 % | Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Liq. 2, H225 Skin Irrit. 2, H315 | M acute = 1 M chronic = 1 | EU OEL |
| Rubber, natural 9006-04-6 232-689-0 | 10- < 20 % | Resp. Sens. 1, H334 Skin Sens. 1, H317 | oral:ATE = 2.043 mg/kg | |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- 01-2119473851-33 | 1- < 3 % | Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 | inhalation:ATE = 23,31 mg/l;vapour | |
| n-Hexane 110-54-3 203-777-6 01-2119480412-44 | 0,1- < 1 % | Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 1, H372 Skin Irrit. 2, H315 STOT SE 3, H336 | | SVHC EU OEL |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.
Delayed effects possible after inhalation.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

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

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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 self-contained breathing apparatus.

Wear protective equipment.

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.

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 mechanically.

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.
- Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Ensure good ventilation/extraction.
- Store in a cool, frost-free place.
- Storage at 15 to 25°C is recommended.
- Keep container tightly sealed.

7.3. Specific end use(s)

adhesive and sealant

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 |
|--|-----|-------------------|-------------------------------------|--|-----------------|
| Zinc oxide 1314-13-2 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Zinc oxide 1314-13-2 | | 1,25 | 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 |
| Zinc oxide 1314-13-2 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Limestone 1317-65-3 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | 1,25 | 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 |
| Limestone 1317-65-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Cyclohexane 110-82-7 [CYCLOHEXANE] | 200 | 700 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Cyclohexane 110-82-7 | 200 | 700 | Exposure limit(s): | 4 | TRGS 900 |
| Cyclohexane 110-82-7 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Carbon black 1333-86-4 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Carbon black 1333-86-4 | | 1,25 | 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 |
| Carbon black 1333-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| n-Hexane 110-54-3 [N-HEXANE] | 20 | 72 | Time Weighted Average (TWA): | Indicative | ECLTV |
| n-Hexane 110-54-3 | 50 | 180 | Exposure limit(s): | 8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| n-Hexane 110-54-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|-------------------------|------------------------------------|--------------------|----------------|-----|----------------|--------|-------------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| zinc oxide 1314-13-2 | aqua (freshwater) | | 14,4 µg/l | | | | |
| zinc oxide 1314-13-2 | aqua (marine water) | | 7,2 µg/l | | | | |
| zinc oxide 1314-13-2 | sewage treatment plant (STP) | | 100 µg/l | | | | |
| zinc oxide 1314-13-2 | sediment (freshwater) | | | | 146,9 mg/kg | | |
| zinc oxide 1314-13-2 | sediment (marine water) | | | | 162,2 mg/kg | | |
| zinc oxide 1314-13-2 | Soil | | | | 83,1 mg/kg | | |
| rosin 8050-09-7 | aqua (freshwater) | | 0,002 mg/l | | | | |
| rosin 8050-09-7 | aqua (marine water) | | 0,0002 mg/l | | | | |
| rosin 8050-09-7 | sediment (freshwater) | | | | 0,007 mg/kg | | |
| rosin 8050-09-7 | sediment (marine water) | | | | 0,001 mg/kg | | |
| rosin 8050-09-7 | Soil | | | | 0 mg/kg | | |
| rosin 8050-09-7 | sewage treatment plant (STP) | | 1000 mg/l | | | | |
| rosin 8050-09-7 | aqua (intermittent releases) | | 0,016 mg/l | | | | |
| cyclohexane 110-82-7 | aqua (freshwater) | | 0,207 mg/l | | | | |
| cyclohexane 110-82-7 | aqua (marine water) | | 0,207 mg/l | | | | |
| cyclohexane 110-82-7 | aqua (intermittent releases) | | 0,207 mg/l | | | | |
| cyclohexane 110-82-7 | sediment (freshwater) | | | | 16,68 mg/kg | | |
| cyclohexane 110-82-7 | sediment (marine water) | | | | 16,68 mg/kg | | |
| cyclohexane 110-82-7 | Soil | | | | 3,38 mg/kg | | |
| cyclohexane 110-82-7 | sewage treatment plant (STP) | | 3,24 mg/l | | | | |
| cyclohexane 110-82-7 | Air | | | | | | |
| cyclohexane 110-82-7 | Predator | | | | | | no potential for bioaccumulation |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|------------------------|----------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | Workers | inhalation | Long term exposure - systemic effects | | 2035 mg/m ³ | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | Workers | dermal | Long term exposure - systemic effects | | 773 mg/kg | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | General population | inhalation | Long term exposure - systemic effects | | 608 mg/m ³ | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | General population | dermal | Long term exposure - systemic effects | | 699 mg/kg | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | General population | oral | Long term exposure - systemic effects | | 699 mg/kg | |
| rosin 8050-09-7 | Workers | inhalation | Long term exposure - local effects | | 10 mg/m ³ | |
| rosin 8050-09-7 | Workers | dermal | Long term exposure - systemic effects | | 2,131 mg/kg | |
| rosin 8050-09-7 | General population | dermal | Long term exposure - systemic effects | | 1,065 mg/kg | |
| rosin 8050-09-7 | General population | oral | Long term exposure - systemic effects | | 1,065 mg/kg | |
| cyclohexane 110-82-7 | Workers | inhalation | Acute/short term exposure - local effects | | 700 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 700 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | Workers | inhalation | Long term exposure - systemic effects | | 700 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | Workers | inhalation | Long term exposure - local effects | | 700 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | Workers | dermal | Long term exposure - systemic effects | | 2016 mg/kg | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 412 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | inhalation | Acute/short term exposure - local effects | | 412 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | dermal | Long term exposure - systemic effects | | 1186 mg/kg | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | oral | Long term exposure - systemic effects | | 59,4 mg/kg | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | inhalation | Long term exposure - systemic effects | | 206 mg/m ³ | no potential for bioaccumulation |
| cyclohexane 110-82-7 | General population | inhalation | Long term exposure - local effects | | 206 mg/m ³ | no potential for bioaccumulation |
| Hydrocarbons, C7-9 ----- | Workers | inhalation | Long term exposure - systemic effects | | 2035 mg/m ³ | |
| Hydrocarbons, C7-9 ----- | Workers | dermal | Long term exposure - systemic effects | | 773 mg/kg | |
| Hydrocarbons, C7-9 ----- | General population | inhalation | Long term exposure - | | 608 mg/m ³ | |

| | | | | | | |
|-----------------------------|--------------------|------------|---------------------------------------|--|-----------|--|
| | | | systemic effects | | | |
| Hydrocarbons, C7-9 ----- | General population | dermal | Long term exposure - systemic effects | | 699 mg/kg | |
| Hydrocarbons, C7-9 ----- | General population | oral | Long term exposure - systemic effects | | 699 mg/kg | |
| n-Hexane 110-54-3 | Workers | inhalation | Long term exposure - systemic effects | | 75 mg/m3 | |
| n-Hexane 110-54-3 | Workers | dermal | Long term exposure - systemic effects | | 11 mg/kg | |
| n-Hexane 110-54-3 | General population | inhalation | Long term exposure - systemic effects | | 16 mg/m3 | |
| n-Hexane 110-54-3 | General population | dermal | Long term exposure - systemic effects | | 5,3 mg/kg | |
| n-Hexane 110-54-3 | General population | oral | Long term exposure - systemic effects | | 4 mg/kg | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|--|--|---------------------|----------------------------------|----------|-------------------------------|--------|------------------------|
| Cyclohexane 110-82-7 [Cyclohexane] | 1,2-Cyclohexane diol, with hydrolysis | Creatinine in urine | Sampling time: End of work week. | 150 mg/g | DE BGW | | |
| n-Hexane 110-54-3 | Hexane-2,5-dione plus 4,5-Dihydroxy-2-hexanone (with hydrolysis) | Urine | Sampling time: End of shift. | 5 mg/l | DE BGW | | |

8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction.

If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

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): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 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

| | |
|---|---|
| Delivery form | paste |
| Colour | Black |
| Odor | Hydrocarbons |
| Physical state | solid |
| Melting point | > -50 °C (> -58 °F) |
| Solidification temperature | Not applicable, Product is a solid |
| Initial boiling point (1.013 hPa) | 60 °C (140 °F)Supplier method |
| Flammability | The substance or mixture is a flammable solid with the subcategory 1. |
| Explosive limits | |
| lower [mass/vol] | 7 g/cm ³ |
| upper [mass/vol] | 1,1 g/cm ³ |
| Flash point | -16 °C (3.2 °F); Dummy |
| Auto-ignition temperature | Not applicable, Product is a solid |
| 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) | Not applicable, Product is a solid |
| Viscosity, dynamic (; 20 °C (68 °F); speed of rotation: 200 min-1) | 60 - 70 Pa*s Supplier method |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Insoluble |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure (20 °C (68 °F)) | Mixture 18000 Pa |
| Vapour pressure (50 °C (122 °F)) | 61000 Pa |
| Density (20 °C (68 °F)) | 1,19 - 1,23 g/cm ³ Dichte Pyknometer; HT-Methode; Henkel Iberica NS-06 |
| Relative vapour density: | Not applicable, Product is a solid |
| Particle characteristics | Not applicable, mixture is a paste. |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

| | |
|------------------|---------|
| Flammable Solids | |
| Burning rate | 45 mm/s |
| Burning time | |

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

No decomposition if used according to specifications.

SECTION 11: Toxicological information**General toxicological information:**

An allergic reaction cannot be excluded after repeated skin contact.

11.1 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.

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|-------------------------------|---------------------|---------|---|
| zinc oxide 1314-13-2 | LD50 | > 5.000 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | LD50 | > 5.840 mg/kg | rat | not specified |
| rosin 8050-09-7 | LD50 | 2.800 mg/kg | rat | not specified |
| cyclohexane 110-82-7 | LD50 | > 5.000 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Rubber, natural 9006-04-6 | LD50 | 2.043 - 2.210 mg/kg | rat | not specified |
| Rubber, natural 9006-04-6 | Acute toxicity estimate (ATE) | 2.043 mg/kg | | Expert judgement |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- | LD50 | > 5.840 mg/kg | rat | not specified |
| n-Hexane 110-54-3 | LD50 | 16.000 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.

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---------------|---------------|---------------|--|
| zinc oxide 1314-13-2 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | LD50 | > 2.800 mg/kg | rat | not specified |
| rosin 8050-09-7 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| cyclohexane 110-82-7 | LD50 | > 2.000 mg/kg | rabbit | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Rubber, natural 9006-04-6 | LD50 | > 4.000 mg/kg | not specified | not specified |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | LD50 | > 2.800 mg/kg | rat | not specified |
| n-Hexane 110-54-3 | LD50 | > 2.000 mg/kg | rabbit | not specified |

Acute inhalative toxicity:

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

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|--|---------------|-----------------|------------------|---------|---|
| zinc oxide 1314-13-2 | LC50 | > 5,7 mg/l | dust/mist | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | LC50 | > 25,2 mg/l | vapour | 4 h | rat | not specified |
| cyclohexane 110-82-7 | LC50 | > 32,880 mg/l | vapour | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | LC50 | > 23,3 mg/l | vapour | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | Acute toxicity estimate (ATE) | 23,31 mg/l | vapour | 4 h | | Expert judgement |
| n-Hexane 110-54-3 | LC50 | > 31,86 mg/l | vapour | 4 h | rat | not specified |

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 |
|---|----------------|------------------|---------|--|
| zinc oxide 1314-13-2 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | irritating | 4 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| rosin 8050-09-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| cyclohexane 110-82-7 | irritating | | rabbit | Weight of evidence |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| n-Hexane 110-54-3 | not irritating | | 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.

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|------------------------|------------------|---------|--|
| zinc oxide 1314-13-2 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | not irritating | | rabbit | FDA Guideline |
| rosin 8050-09-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| cyclohexane 110-82-7 | slightly irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| n-Hexane 110-54-3 | not irritating | | rabbit | not specified |

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 |
|---------------------------------|-----------------|---------------------------------------|------------|--|
| zinc oxide 1314-13-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| cyclohexane 110-82-7 | not sensitising | Buehler test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| n-Hexane 110-54-3 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

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

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|------------------------------|-----------|--|--------------------------------------|---------|--|
| 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) |
| rosin 8050-09-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| rosin 8050-09-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| rosin 8050-09-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| cyclohexane 110-82-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| cyclohexane 110-82-7 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| n-Hexane 110-54-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| n-Hexane 110-54-3 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| zinc oxide 1314-13-2 | negative | inhalation: aerosol | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| zinc oxide 1314-13-2 | negative | inhalation: aerosol | | rat | OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay) |
| cyclohexane 110-82-7 | negative | inhalation: vapour | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| n-Hexane 110-54-3 | negative | inhalation: vapour | | mouse | not specified |
| n-Hexane 110-54-3 | negative | inhalation: vapour | | rat | not specified |

Carcinogenicity

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

Based on available data, the classification criteria are not met.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|------------------------------|------------------|----------------------|--|---------|-------------|--|
| zinc oxide 1314-13-2 | not carcinogenic | oral: drinking water | 1 y daily | mouse | male/female | not specified |
| n-Hexane 110-54-3 | not carcinogenic | inhalation: vapour | 2 y 6 h/d; 5 d/w | mouse | female | OECD Guideline 451 (Carcinogenicity Studies) |

Reproductive toxicity:

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

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---------------------------------|--|----------------------|----------------------|---------|--|
| zinc oxide 1314-13-2 | NOAEL P 7,5 mg/kg NOAEL F1 15 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| rosin 8050-09-7 | NOAEL P 3000 ppm NOAEL F1 3000 ppm | screening | oral: feed | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| cyclohexane 110-82-7 | NOAEL F1 7000 ppm | two-generation study | inhalation: vapour | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| n-Hexane 110-54-3 | NOAEL P 9000 ppm NOAEL F1 3000 ppm NOAEL F2 3000 ppm | Two generation study | inhalation: vapour | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

STOT-single exposure:

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

| Hazardous substances CAS-No. | Assessment | Route of exposure | Target Organs | Remarks |
|--|------------------------------------|-------------------|---------------|---------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | Category 3 with narcotic effects. | | | |
| cyclohexane 110-82-7 | Category 3 with narcotic effects. | | | |
| n-Hexane 110-54-3 | May cause drowsiness or dizziness. | | | |

STOT-repeated exposure:

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

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---------------------------------|-----------------------------|----------------------|--|---------|--|
| zinc oxide 1314-13-2 | NOAEL 31,52 mg/kg | oral: gavage | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| zinc oxide 1314-13-2 | NOAEL 1.5 mg/m ³ | inhalation | 3 m 6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| zinc oxide 1314-13-2 | NOAEL 1.000 mg/kg | dermal | 90 d 6 h/d, daily | rat | OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| rosin 8050-09-7 | NOAEL 5000 ppm | oral: feed | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| cyclohexane 110-82-7 | | inhalation: vapour | 13-14 w 6 h/d, 5 d/w | mouse | EPA OPPTS 870.3465 (90-Day Inhalation Toxicity) |
| n-Hexane 110-54-3 | NOAEL 40 mg/kg | oral: gavage | 13 weeks daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| n-Hexane 110-54-3 | NOAEL 13,2 mg/kg | oral: gavage | 90-120 d 5 d / week | rat | not specified |

Aspiration hazard:

The mixture is classified based on Viscosity data.

Based on available data, the classification criteria are not met.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---|--------------------------------|-------------|---------------|---------|
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | 0,61 mm ² /s | 25 °C | not specified | |
| cyclohexane 110-82-7 | 0,41 mm ² /s | 40 °C | not specified | |
| n-Hexane 110-54-3 | 0,45 mm ² /s | 25 °C | not specified | |

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

No data available.

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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|-----------------------------|---------------|---|--|
| 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: |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | LL50 | 11,4 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| rosin 8050-09-7 | LC50 | Toxicity > Water solubility | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| cyclohexane 110-82-7 | LC50 | 4,53 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Rubber, natural 9006-04-6 | LC50 | > 10.000 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- | LL50 | > 3 - 10 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| n-Hexane 110-54-3 | LC50 | > 1 - 10 mg/l | 96 h | not specified | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|-----------------------------|---------------|---------------|--|
| zinc oxide 1314-13-2 | EC50 | 1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | EL50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| rosin 8050-09-7 | EL50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| cyclohexane 110-82-7 | EC50 | 0,9 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- | EL50 | > 4,6 - 10 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| n-Hexane 110-54-3 | EC50 | 2,1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|------------|---------------|---------------|--|
| zinc oxide 1314-13-2 | NOEC | 0,058 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | NOEC | 0,17 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | NOELR | 1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---|--|
| 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) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | EL50 | > 30 - 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane ----- | NOELR | 3 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| rosin 8050-09-7 | EL50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| rosin 8050-09-7 | NOELR | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| cyclohexane 110-82-7 | EC50 | 9,317 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| cyclohexane 110-82-7 | NOEC | 0,95 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | EL50 | > 10 - 30 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics ----- | NOELR | 10 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| n-Hexane 110-54-3 | EC50 | > 1 - 10 mg/l | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|--------------------------------|---------------|--|--|
| zinc oxide 1314-13-2 | IC50 | 5,2 mg/l | 3 h | not specified | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| rosin 8050-09-7 | EC20 | Toxicity > Water solubility | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| cyclohexane 110-82-7 | IC50 | 29 mg/l | 15 h | other: | not specified |
| Rubber, natural 9006-04-6 | EC50 | > 10.000 mg/l | | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| n-Hexane 110-54-3 | EC50 | > 1 - 10 mg/l | 3 h | not specified | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

Biodegradability (Screening Tests):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|-----------------------|-----------|---------------|------------------|---|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ----- | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| rosin 8050-09-7 | readily biodegradable | aerobic | 71 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| cyclohexane 110-82-7 | readily biodegradable | aerobic | 77 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| n-Hexane 110-54-3 | readily biodegradable | aerobic | 81 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

(Bio)degradability (Simulation Tests):

No data available.

12.3. Bioaccumulative potential**Partition Coefficient (octanol/water)**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|-----------|-------------|---|
| rosin 8050-09-7 | > 3 - 6,2 | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| cyclohexane 110-82-7 | 3,44 | 25 °C | QSAR (Quantitative Structure Activity Relationship) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ----- | 5,65 | 25 °C | QSAR (Quantitative Structure Activity Relationship) |
| n-Hexane 110-54-3 | 4 | 20 °C | other guideline: |

Bioconcentration factor (BCF)

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|----------------------------------|------------------|-------------|------------------------|---|
| cyclohexane 110-82-7 | 167 | | | Pimephales promelas | QSAR (Quantitative Structure Activity Relationship) |

12.4. Mobility in soil

No data available.

12.5. Results of PBT / vPvB / PMT / vPvM assessment**PBT/vPvB**

The following table contains only substances that fulfill the criteria as PBT and/or vPvB.

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

| Hazardous substances CAS-No. | PBT | vPvB |
|---------------------------------|---|------|
| zinc oxide 1314-13-2 | According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances. | |

PMT/vPvM

This mixture does not contain any substances that are assessed to be a PMT or vPvM. Based on available data, the classification criteria are not met.

12.6. Endocrine disrupting properties

No data available.

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

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.

080409

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

| | |
|------|------|
| ADR | 3175 |
| RID | 3175 |
| ADN | 3175 |
| IMDG | 3175 |
| IATA | 3175 |

14.2. UN proper shipping name

| | |
|------|--|
| ADR | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Solvent naphtha,Cyclohexane) |
| RID | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Solvent naphtha,Cyclohexane) |
| ADN | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Solvent naphtha,Cyclohexane) |
| IMDG | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Solvent naphtha,Cyclohexane) |
| IATA | Solids containing flammable liquid, n.o.s. (Solvent naphtha,Cyclohexane) |

14.3. Transport hazard class(es)

| | |
|------|-----|
| ADR | 4.1 |
| RID | 4.1 |
| ADN | 4.1 |
| IMDG | 4.1 |
| IATA | 4.1 |

14.4. Packing group

| | |
|------|----|
| ADR | II |
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

14.5. Environmental hazards

| | |
|------|---------------------------|
| ADR | Environmentally Hazardous |
| RID | Environmentally Hazardous |
| ADN | Environmentally Hazardous |
| IMDG | Marine Pollutant |
| IATA | not applicable |

14.6. Special precautions for user

| | |
|------|-----------------------------------|
| ADR | not applicable Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | 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 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

VOC content
(2010/75/EU) 45,0 %

Seveso III (2012/18/EU): E1, Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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:

BG data sheet: BGI 621 Solvents

Storage class according to TRGS 510: 4.1B

15.2. Chemical safety assessment

A chemical safety assessment has not 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 vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
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.

Abbreviations and acronyms:

ADG(-Code): Australian Dangerous Goods (Code)
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM: American Society for Testing and Materials
ATE: acute toxicity estimate
AS: Australian Standard
AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
CAS: Chemical Abstract Service
CLP: Regulation (EC) No 1272/2008
CMR: carcinogenic, mutagenic or reprotoxic
DIN: German Institute for Standardization
ECx: Effective concentration (x% effective level)
ECHA: European Chemicals Agency
EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
ECTLV: European community threshold limit value
ED: Substance identified as having endocrine disrupting properties
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EN : European Standard
ENCS: Japanese chemical inventory
EPA: US Environmental Protection Agency
EU: European Union
EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
EWC: European Waste Catalogue
GHS: Globally Harmonised System for Classification and Labelling of Chemicals
GLP: Good Laboratory Practice
HSNO: Hazardous Substances and New Organisms
IARC: International Agency for Research of Cancer
IATA: International Air Transport Association
IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization
IMDG-Code: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
ISO: International Standardization Organisation
LC50: Median lethal concentration
LD50: Median lethal dose
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
n.o.s.: not otherwise specified
NO(A)EC: No (adverse) effect concentration
NO(A)EL: No (adverse) effect level
NZS: New Zealand Standard
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit
OPPT: US EPA Office of Pollution Prevention and Toxics
OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances

PBT: Persistent, bioaccumulative, toxic
PMT: Persistent, mobile and toxic
(Q)SAR: (Quantitative) structure–activity relationship
REACH: Regulation (EC) No. 1907/2006
RID: Regulations concerning the International Transport of Dangerous Goods by Rail
SADT: Self Accelerating Decomposition Temperature
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicity
STOT SE: Specific Target Organ Toxicity - single exposure
STOT RE: Specific Target Organ Toxicity - repeated exposure
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
SVHC: Substance of very high concern (REACH Candidate List)
TRGS: German Technical Rules for hazardous substances
UN: United Nations
VOC: Volatile Organic Compound
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative
vPvM: Very persistent and very mobile
VwVwS: Administrative Regulation on Substances Hazardous to Waters
WGK: Water hazard class

Further information:

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