

SAFETY DATA SHEET



TEKNOSILOX 3351 - All variants

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

1.1 Product identifier

Product name : TEKNOSILOX 3351 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

National contact

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Skin Sens. 1, H317
Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapour.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 2: Hazards identification

- Supplemental label elements** : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

2.3 Other hazards

- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification** : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|--|-----------|--|---------|
| titanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 | ≥25 - ≤50 | Carc. 2, H351 (inhalation) | [1] [*] |
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | EC: 500-070-7 CAS: 30583-72-3 | ≤10 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 | [1] |
| Xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≤3 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 | [1] [2] |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | REACH #: 01-2119491304-40 | <2.5 | Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | [1] |
| Ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | <1 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 | [1] [2] |
| 2-Methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | <1 | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] [2] |
| propylidynetrimethanol | REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6 | ≤0.3 | Repr. 2, H361d | [1] |
| methanol | REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X | <0.1 | Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 | [1] [2] |

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Label No : 41625

SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|------|--|---------|
| Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates | REACH #: 01-2119977130-42 EC: 269-662-8 CAS: 68308-64-5 | <0.1 | Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] |
| Butan-1-ol | REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6 | ≤0.1 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] [2] |
| n-Butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≤0.1 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | [1] [2] |
| Ethanol | REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 | ≤0.1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [1] [2] |
| iso-butanol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≤0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] [2] |
| Propylene glycol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≤0.1 | Not classified. | [2] |
| Butanone | REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3 | ≤0.1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 | [1] [2] |
| Formaldehyde | REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5 | <0.1 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 5: Firefighting measures

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
halogenated compounds
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

SECTION 7: Handling and storage

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| | |
|---------------------------------|---|
| Xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. |
| Ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. |
| methanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |
| Butan-1-ol | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 154 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. |
| n-Butyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. |

SECTION 8: Exposure controls/personal protection

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|------------------|--|
| Ethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. |
| iso-butanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1920 mg/m ³ 8 hours. STEL: 231 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| Propylene glycol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Particulate TWA: 474 mg/m ³ 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates |
| Butanone | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 899 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |
| Formaldehyde | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2.5 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m ³ 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects | |
|--|--------|-----------------------|--------------------------|--------------------|--------------------|----------|
| titanium dioxide 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | DNEL | Long term Inhalation | 10 mg/m ³ | Workers | Local | |
| | DNEL | Long term Oral | 700 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 0.021 mg/cm ² | General population | Local | |
| | DNEL | Long term Dermal | 0.021 mg/cm ² | General population | Local | |
| | DNEL | Long term Dermal | 0.021 mg/cm ² | Workers | Local | |
| | DNEL | Short term Dermal | 0.23 mg/cm ² | Workers | Local | |
| | DNEL | Long term Oral | 0.5 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 0.5 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 0.5 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 1 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Dermal | 1 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 1.76 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 1.76 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 3.25 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 3.52 mg/m ³ | Workers | Systemic | |
| | Xylene | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |

SECTION 8: Exposure controls/personal protection

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|------------------------|---------------------------------|-----------------------|--------------------------|-----------------------|--------------------|----------|
| Ethylbenzene | DNEL | Long term Inhalation | 14.8 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 108 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 289 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 289 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local | |
| | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 15 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 442 mg/m ³ | Workers | Local | |
| | 2-Methoxy-1-methylethyl acetate | DNEL | Short term Inhalation | 884 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Oral | 1.67 mg/kg bw/day | General population | Systemic |
| DNEL | | Long term Inhalation | 33 mg/m ³ | General population | Local | |
| DNEL | | Long term Inhalation | 33 mg/m ³ | General population | Systemic | |
| DNEL | | Long term Dermal | 54.8 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Dermal | 153.5 mg/kg bw/day | Workers | Systemic | |
| DNEL | | Long term Inhalation | 275 mg/m ³ | Workers | Systemic | |
| DNEL | | Short term Inhalation | 550 mg/m ³ | Workers | Local | |
| propylidynetrimethanol | DNEL | Short term Oral | 50 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 83.3 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 138.8 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 925 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 3037.3 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Oral | 0.34 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 0.34 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 0.58 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 0.94 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Dermal | 0.94 mg/kg bw/day | Workers | Systemic | |

SECTION 8: Exposure controls/personal protection

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|-----------------|---|-----------------------|--------------------------|------------------------|--------------------|-------|
| methanol | DNEL | Long term Inhalation | 3.3 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Oral | 4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 26 mg/m ³ | General population | Local | |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 26 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Systemic | |
| | Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates | DNEL | Long term Dermal | 4.7 mg/kg bw/day | Workers | Local |
| | | DNEL | Long term Inhalation | 3.32 mg/m ³ | Workers | Local |
| | Butan-1-ol | DNEL | Long term Inhalation | 55 mg/m ³ | General population | Local |
| | | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| DNEL | | Long term Oral | 1.5625 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Dermal | 3.125 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Inhalation | 55.357 mg/m ³ | General population | Systemic | |
| n-Butyl acetate | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 7 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 12 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 48 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Oral | 2 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Oral | 2 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 6 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 11 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 35.7 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Systemic | |

SECTION 8: Exposure controls/personal protection

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|------------------|------|-----------------------|--------------------------|--------------------|----------|
| Ethanol | DNEL | Long term Inhalation | 300 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Oral | 87 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 114 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 206 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 343 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 950 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 950 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1900 mg/m ³ | Workers | Local |
| iso-butanol | DNEL | Long term Inhalation | 55 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| Propylene glycol | DNEL | Long term Inhalation | 10 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 10 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 50 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 168 mg/m ³ | Workers | Systemic |
| Butanone | DNEL | Long term Oral | 31 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 106 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 412 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 600 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 1161 mg/kg bw/day | Workers | Systemic |
| Formaldehyde | DNEL | Long term Dermal | 0.012 mg/cm ² | General population | Local |
| | DNEL | Long term Dermal | 0.037 mg/cm ² | Workers | Local |
| | DNEL | Long term Inhalation | 0.1 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 3.2 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 4.1 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 9 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 102 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 240 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.375 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.75 mg/m ³ | Workers | Local |

PNECs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|------------------------|----------------|---------------|
| Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates | Fresh water | 0.00068 mg/l | - |
| | Fresh water sediment | 9.27 mg/kg dwt | - |
| | Sewage Treatment Plant | 0.9 mg/l | - |

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations : Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

Filter type (spray application): A P

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Various

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SECTION 9: Physical and chemical properties

Odour : Slight
Odour threshold : Not available.
Melting point/freezing point : Not available.
Initial boiling point and boiling range :

| Ingredient name | °C | °F | Method |
|-----------------|--------|-------|--------|
| Xylene | 136.16 | 277.1 | |

Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Lower: 0.8%
Upper: 6.7%
Flash point : Closed cup: 65°C (149°F)
Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|-----------------|-----|-------|--------|
| Xylene | 432 | 809.6 | |

Decomposition temperature : Not available.
pH : Not available.
Viscosity : Not available.
Solubility(ies) :
Not available.

Solubility in water : Not available.
Partition coefficient: n-octanol/ water : Not applicable.
Vapour pressure :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|------|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Xylene | 6.7 | 0.89 | | | | |

Relative density : Not available.
Density : 1.4 g/cm³
Vapour density : Not available.
Explosive properties : Not available.
Oxidising properties : Not available.
Particle characteristics
Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability : The product is stable.
10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid : No specific data.
10.5 Incompatible materials : No specific data.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|---------|--------------------------|----------|
| Xylene | LC50 Inhalation Vapour | Rat | 21.7 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Dermal | Rat | >3170 mg/kg | - |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | LD50 Oral | Rat | 3230 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | 29000 mg/l | 4 hours |
| Ethylbenzene | LD50 Dermal | Rabbit | 15400 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| 2-Methoxy-1-methylethyl acetate | LD50 Oral | Rat | 8532 mg/kg | - |
| | LD50 Oral | Rat | 14000 mg/kg | - |
| propylidynetrimethanol methanol | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |
| | LD50 Oral | Rat | 24000 mg/m ³ | 4 hours |
| Butan-1-ol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| | LD50 Oral | Rat | 0.74 mg/l | 4 hours |
| n-Butyl acetate | LD50 Dermal | Rabbit | 14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| | LD50 Oral | Rat | 124700 mg/m ³ | 4 hours |
| Ethanol | LD50 Oral | Rat | 7 g/kg | - |
| | LD50 Oral | Rat | 19200 mg/m ³ | 4 hours |
| iso-butanol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 2460 mg/kg | - |
| | LD50 Dermal | Rabbit | 20800 mg/kg | - |
| Propylene glycol | LD50 Oral | Rat | 20 g/kg | - |
| | LD50 Dermal | Rabbit | 6480 mg/kg | - |
| Butanone | LD50 Oral | Rat | 2737 mg/kg | - |
| | LD50 Oral | Rat | 250 ppm | 4 hours |
| Formaldehyde | LC50 Inhalation Gas. | Rat | 250 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 270 mg/kg | - |
| | LD50 Oral | Rat | 100 mg/kg | - |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

| Route | ATE value |
|----------------------|----------------|
| Dermal | 43863.49 mg/kg |
| Inhalation (vapours) | 438.63 mg/l |

Irritation/Corrosion

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|---------------|----------------------------|-------------|
| titanium dioxide | Skin - Mild irritant | Human | - | 72 hours 300 ug l | - |
| Xylene | Eyes - Mild irritant | Rabbit | - | 87 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 mg | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 uL | - |
| Ethylbenzene | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| methanol | Skin - Mild irritant | Rabbit | - | 24 hours 15 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| Butan-1-ol | Eyes - Moderate irritant | Rabbit | - | 40 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 0.005 MI | - |
| n-Butyl acetate | Eyes - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| Ethanol | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| Propylene glycol | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 100 uL | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 400 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| Butanone | Skin - Mild irritant | Human | - | 168 hours 500 mg | - |
| | Skin - Mild irritant | Woman | - | 96 hours 30 % | - |
| | Skin - Moderate irritant | Child | - | 96 hours 30 % C | - |
| Formaldehyde | Skin - Moderate irritant | Human | - | 72 hours 104 mg l | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 14 mg | - |
| Formaldehyde | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Mild irritant | Human | - | 6 minutes 1 ppm | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 750 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 750 ug | - |
| | Skin - Mild irritant | Human | - | 72 hours 150 ug l | - |
| | Skin - Mild irritant | Rabbit | - | 540 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 50 mg | - |
| | Skin - Severe irritant | Human | - | 0.01 % | - |
| | Skin - Severe irritant | Rabbit | - | 0.8 % | - |
| Skin - Severe irritant | Rabbit | - | 24 hours 2 mg | - | |

SECTION 11: Toxicological information

Conclusion/Summary : Based on available data, the classification criteria are not met.

Sensitisation

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------|------------|-------------------|--|
| Xylene | Category 3 | - | Respiratory tract irritation |
| 2-Methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| methanol | Category 1 | - | - |
| Butan-1-ol | Category 3 | - | Respiratory tract irritation |
| n-Butyl acetate | Category 3 | - | Narcotic effects |
| iso-butanol | Category 3 | - | Narcotic effects Respiratory tract irritation |
| Butanone | Category 3 | - | Narcotic effects |
| Formaldehyde | Category 3 | - | Narcotic effects Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| Xylene | Category 2 | oral, inhalation | - |
| Ethylbenzene | Category 2 | oral, inhalation | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--|
| Xylene Ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

SECTION 11: Toxicological information

Ingestion : No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---------------------------------------|--|--------------------------------------|
| titanium dioxide | Acute LC50 3 mg/l Fresh water | Crustaceans - Water flea - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - Water flea - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 >1000000 µg/l Marine water | Fish - Mummichog - Fundulus heteroclitus | 96 hours |
| | EC50 1.68 mg/l | Aquatic plants - Desmododesmodus subspicatus | 72 hours |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Acute LC50 0.9 mg/l | Fish - Brachydanio rerio | 96 hours |
| | Chronic NOEC 1 mg/l | Daphnia - Daphnia | 21 days |
| propylidynetrimethanol | Acute EC50 13000000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 14400000 µg/l Marine water | Fish - Sheepshead minnow - Cyprinodon variegatus | 96 hours |
| methanol | Acute EC50 16.912 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute LC50 2500000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult | 48 hours |
| | Acute LC50 3289 mg/l Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 290 mg/l Fresh water | Fish - Zebra danio - Danio rerio - Egg | 96 hours |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Butan-1-ol | Acute EC50 1983000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna |
| Acute LC50 1730000 µg/l Fresh water | | Fish - Fathead minnow - Pimephales promelas | 96 hours |

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SECTION 12: Ecological information

| | | | |
|------------------|--------------------------------------|---|----------|
| n-Butyl acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Brine shrimp - Artemia salina | 48 hours |
| | Acute LC50 18000 µg/l Fresh water | Fish - Fathead minnow - Pimephales promelas | 96 hours |
| Ethanol | Acute EC50 17.921 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 25500 µg/l Marine water | Crustaceans - San Francisco Brine Shrimp - Artemia franciscana - Larvae | 48 hours |
| | Acute LC50 42000 µg/l Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC 0.375 ul/L Fresh water | Fish - Eastern mosquitofish - Gambusia holbrooki - Larvae | 12 weeks |
| iso-butanol | Acute LC50 600 mg/l Marine water | Crustaceans - Brine shrimp - Artemia salina | 48 hours |
| | Acute LC50 1030000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 1330000 µg/l Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 96 hours |
| Propylene glycol | Acute EC50 19300 mg/l Fresh water | Algae - Algae | 96 hours |
| | Acute EC50 43500 mg/l Fresh water | Daphnia - Daphnia - Daphnia magna | 48 hours |
| Butanone | Acute LC50 18340000 µg/l Fresh water | Crustaceans - Water flea - Ceriodaphnia dubia | 48 hours |
| | Acute LC50 40613 mg/l Fresh water | Fish - Trout - Oncorhynchus mykiss | 96 hours |
| | Acute EC50 >500000 µg/l Marine water | Algae - Diatom - Skeletonema costatum | 96 hours |
| | Acute EC50 5091000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna - Larvae | 48 hours |
| Formaldehyde | Acute LC50 3220000 µg/l Fresh water | Fish - Fathead minnow - Pimephales promelas | 96 hours |
| | Acute EC50 3.48 mg/l Fresh water | Algae - Green algae - Desmodesmus subspicatus | 72 hours |
| | Acute EC50 0.788 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute EC50 12.98 mg/l Fresh water | Crustaceans - Water flea - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 5800 µg/l Fresh water | Daphnia - Water flea - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 1.41 ppm Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.005 mg/l Marine water | Algae - Haptophyte - Isochrysis galbana - Exponential growth phase | 96 hours |
| | Chronic NOEC 953.9 ppm Fresh water | Fish - Chinook salmon - Oncorhynchus tshawytscha - Egg | 43 days |

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| iso-butanol | - | 74 % - Readily - 28 days | - | - |

Conclusion/Summary : This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

SECTION 12: Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| Xylene | 3.12 | 8.1 to 25.9 | low |
| propylidynetrimethanol | -0.47 | <1 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC) : 080111*

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|--|----------------|---|----------------|----------------|
| 14.1 UN number | Not regulated. | 9003 | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (xylene) | - | - |
| 14.3 Transport hazard class(es) | - | 9 | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

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SECTION 14: Transport information

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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SECTION 15: Regulatory information

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

[Procedure used to derive the classification](#)

| Classification | Justification |
|-------------------------|--------------------|
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

[Full text of abbreviated H statements](#)

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H370 | Causes damage to organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

[Full text of classifications](#)

SECTION 16: Other information

| | |
|-------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 1B | CARCINOGENICITY - Category 1B |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Muta. 2 | GERM CELL MUTAGENICITY - Category 2 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 1 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

Date of issue/ Date of revision : 08/11/2022
Date of previous issue : No previous validation
Version : 2

TEKNOSILOX 3351

All variants

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

