

# SAFETY DATA SHEET



TEKNODUR 0090 - All variants

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

### 1.1 Product identifier

**Product name** : TEKNODUR 0090 - 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

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

STOT SE 3, H335

STOT RE 2, H373

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** :

- H226 - Flammable liquid and vapour.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements

## SECTION 2: Hazards identification

<b>Prevention</b>	: P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
<b>Response</b>	: P314 - Get medical advice/attention if you feel unwell.
<b>Storage</b>	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: 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	≥10 - ≤25	Carc. 2, H351 (inhalation)	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	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 #:	≤4.2	Flam. Liq. 3, H226	[1] [2]

## SECTION 3: Composition/information on ingredients

Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.77	STOT SE 3, H336  Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤0.3	Fam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5	≤0.1	Fam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Propylene glycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.1	Not classified.	[2]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤0.1	Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7	<0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
cumene	EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	≤0.1	Fam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.1	Fam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
benzene	EC: 200-753-7 CAS: 71-43-2 Index: 601-020-00-8	<0.1	Fam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]

## SECTION 3: Composition/information on ingredients

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

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  $\leq 10 \mu\text{m}$  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.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 following exposure or if feeling unwell. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

## SECTION 4: First aid measures

**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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

## 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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

## SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Use spark-proof tools and explosion-proof equipment. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
- 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

- 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 breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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 a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. 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. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

### 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	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers]</b> Absorbed through skin. STEL 15 minutes: 441 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
n-Butyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 966 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm.
Ethylbenzene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 552 mg/m <sup>3</sup> . STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 548 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
Ethyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. STEL 15 minutes: 1468 mg/m <sup>3</sup> . TWA 8 hours: 734 mg/m <sup>3</sup> .
Styrene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 250 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 430 mg/m <sup>3</sup> . STEL 15 minutes: 1080 mg/m <sup>3</sup> .
Propylene glycol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> TWA 8 hours: 474 mg/m <sup>3</sup> . Form: total vapour and particulates. TWA 8 hours: 150 ppm. Form: total vapour and particulates. TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Particulate.
iso-butanol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 231 mg/m <sup>3</sup> . STEL 15 minutes: 75 ppm. TWA 8 hours: 154 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Dibutyltin dilaurate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [tin compounds, organic, except cyhexatin (ISO)]</b> Absorbed through skin. STEL 15 minutes: 0.2 mg/m <sup>3</sup> (as Sn). TWA 8 hours: 0.1 mg/m <sup>3</sup> (as Sn).
cumene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 250 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. TWA 8 hours: 125 mg/m <sup>3</sup> .
Toluene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 384 mg/m <sup>3</sup> . TWA 8 hours: 191 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.
benzene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Carc.

## SECTION 8: Exposure controls/personal protection

Absorbed through skin.  
TWA 8 hours: 1 ppm.  
TWA 8 hours: 3.25 mg/m<sup>3</sup>.

### Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	<b>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]</b> BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

Product/ingredient name	Result
Titanium dioxide	<b>DNEL - General population - Long term - Inhalation</b> 28 µg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 170 µg/m <sup>3</sup> <u>Effects</u> : Local
Xylene	<b>DNEL - General population - Long term - Oral</b> 5 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 65.3 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Inhalation</b> 65.3 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 125 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 212 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 260 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 260 mg/m <sup>3</sup>



## SECTION 8: Exposure controls/personal protection

Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

442 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Short term - Inhalation**

442 mg/m<sup>3</sup>

Effects: Systemic

Solvent naphtha (petroleum), light aromatic

**DNEL - General population - Long term - Inhalation**

0.41 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

1.9 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

178.57 mg/m<sup>3</sup>

Effects: Local

**DNEL - General population - Short term - Inhalation**

640 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

837.5 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Short term - Inhalation**

1066.67 mg/m<sup>3</sup>

Effects: Local

**DNEL - General population - Short term - Inhalation**

1152 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

1286.4 mg/m<sup>3</sup>

Effects: Systemic

n-Butyl acetate

**DNEL - General population - Long term - Oral**

2 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Short term - Oral**

2 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Dermal**

3.4 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Short term - Dermal**

6 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

7 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Short term - Dermal**

11 mg/kg bw/day

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

**DNEL - General population - Long term - Inhalation**  
12 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**  
35.7 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**  
48 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Short term - Inhalation**  
300 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Short term - Inhalation**  
300 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**  
300 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**  
600 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**  
600 mg/m<sup>3</sup>  
Effects: Systemic

Ethylbenzene

**DMEL - Workers - Long term - Inhalation**  
442 mg/m<sup>3</sup>  
Effects: Local

**DMEL - Workers - Short term - Inhalation**  
884 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Oral**  
1.6 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**  
15 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**  
77 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**  
180 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**  
293 mg/m<sup>3</sup>  
Effects: Local

2-Methoxy-1-methylethyl acetate

**DNEL - General population - Long term - Inhalation**  
33 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Long term - Inhalation**  
33 mg/m<sup>3</sup>

## SECTION 8: Exposure controls/personal protection

Effects: Systemic

**DNEL - General population - Long term - Oral**

36 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

275 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Dermal**

320 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

550 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Dermal**

796 mg/kg bw/day

Effects: Systemic

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**DNEL - General population - Long term - Oral**

0.18 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

0.31 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Dermal**

0.9 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

1.27 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

1.8 mg/kg bw/day

Effects: Systemic

Ethyl acetate

**DNEL - General population - Long term - Oral**

4.5 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Dermal**

37 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

63 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Local

**DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Short term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Local

## SECTION 8: Exposure controls/personal protection

Styrene	<b>DNEL - General population - Short term - Inhalation</b> 734 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 734 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 734 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1468 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 1468 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Oral</b> 7.7 µg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 1 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Inhalation</b> 1 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 10 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 10 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 85 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 100 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 100 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 100 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 343 mg/kg bw/day <u>Effects</u> : Systemic

Propylene glycol	<b>DNEL - Workers - Long term - Dermal</b> 406 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 10 mg/m <sup>3</sup>

## SECTION 8: Exposure controls/personal protection

Effects: Local

**DNEL - Workers - Long term - Inhalation**

10 mg/m<sup>3</sup>

Effects: Local

**DNEL - General population - Long term - Inhalation**

50 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

168 mg/m<sup>3</sup>

Effects: Systemic

iso-butanol

**DNEL - General population - Long term - Inhalation**

55 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

310 mg/m<sup>3</sup>

Effects: Local

Dibutyltin dilaurate

**DNEL - General population - Long term - Oral**

0.0031 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

0.0046 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Short term - Oral**

0.02 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

0.02 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Short term - Inhalation**

0.04 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

0.059 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Dermal**

0.16 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.43 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Short term - Dermal**

0.5 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Short term - Dermal**

2.08 mg/kg bw/day

Effects: Systemic

cumene

**DNEL - General population - Long term - Dermal**

1.2 mg/kg bw/day

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

### **DNEL - Workers - Long term - Dermal**

15.4 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

100 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Short term - Inhalation**

250 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Long term - Oral**

5 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Inhalation**

16.6 mg/m<sup>3</sup>

Effects: Systemic

Toluene

### **DNEL - General population - Long term - Oral**

8.13 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Inhalation**

56.5 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Long term - Inhalation**

56.5 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

192 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Long term - Inhalation**

192 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Dermal**

226 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Short term - Inhalation**

226 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Short term - Inhalation**

226 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Long term - Dermal**

384 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Short term - Inhalation**

384 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Short term - Inhalation**

384 mg/m<sup>3</sup>

Effects: Systemic

benzene

### **DNEL - General population - Long term - Inhalation**

0.14 mg/m<sup>3</sup>

## SECTION 8: Exposure controls/personal protection

Effects: Systemic

### PNECs

Not available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### 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: chemical splash goggles.

### 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): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.

> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves

Wash hands before breaks and immediately after handling the product.

**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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to British Standard BS EN 1149 for further information on material and design requirements and test methods.

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

Ingredient name	°C	°F	Method
n-Butyl acetate	126	258.8	OECD 103
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

- Flammability (solid, gas)** : Not available.  
**Upper/lower flammability or explosive limits** : Lower: 0.8% (xylene)  
Upper: 7.6% (Solvent naphtha (petroleum), light arom.)  
**Flash point** : Closed cup: 31°C (87.8°F)  
**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794

- Decomposition temperature** : Not available.  
**pH** : Not applicable.  
**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): >20.5 mm<sup>2</sup>/s  
**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
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				

- Relative density** : Not available.  
**Density** : 1.3 g/cm<sup>3</sup>  
**Vapour density** : Not available.  
**Explosive properties** : Not available.  
**Oxidising properties** : Not available.  
**Particle characteristics**  
**Median particle size** : Not applicable.

### 9.2 Other information

Not available.



## 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** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials
- 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

Xylene

##### Result

###### Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

###### Rat - Inhalation - LC50 Vapour

21.7 mg/l [4 hours]

Solvent naphtha (petroleum), light aromatic

###### Rat - Oral - LD50

8400 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes

n-Butyl acetate

###### Rat - Oral - LD50

10760 mg/kg

EU

###### Rabbit - Dermal - LD50

14112 mg/kg

###### Rat - Inhalation - LC50 Vapour

0.74 mg/l [4 hours]

Ethylbenzene

###### Rat - Oral - LD50

3500 mg/kg

###### Rabbit - Dermal - LD50

15400 mg/kg

###### Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

2-Methoxy-1-methylethyl acetate

###### Rat - Oral - LD50

8532 mg/kg

###### Rabbit - Dermal - LD50

>5 g/kg

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

###### Rat - Oral - LD50

3230 mg/kg

## SECTION 11: Toxicological information

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Rat - Dermal - LD50**

>3170 mg/kg

Ethyl acetate

**Rat - Oral - LD50**

5620 mg/kg

Styrene

**Rat - Oral - LD50**

2650 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Liver - Other changes

**Rat - Inhalation - LC50 Vapour**

11800 mg/m<sup>3</sup> [4 hours]

**Rat - Inhalation - LC50 Gas.**

2770 ppm [4 hours]

Propylene glycol

**Rat - Oral - LD50**

20 g/kg

**Rabbit - Dermal - LD50**

20800 mg/kg

iso-butanol

**Rat - Oral - LD50**

2460 mg/kg

**Rabbit - Dermal - LD50**

3400 mg/kg

**Rat - Inhalation - LC50 Vapour**

19200 mg/m<sup>3</sup> [4 hours]

Dibutyltin dilaurate

**Rat - Oral - LD50**

175 mg/kg

cumene

**Rat - Oral - LD50**

1400 mg/kg

Toxic effects: Gastrointestinal - Gastritis

**Rat - Inhalation - LC50 Vapour**

39000 mg/m<sup>3</sup> [4 hours]

Toluene

**Rat - Oral - LD50**

636 mg/kg

**Rat - Inhalation - LC50 Vapour**

49 g/m<sup>3</sup> [4 hours]

benzene

**Rat - Oral - LD50**

930 mg/kg

Toxic effects: Behavioral - Tremor Behavioral - Convulsions or effect on seizure threshold

**Conclusion/Summary [Product]** : Not available.

**Acute toxicity estimates**

## SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TEKNODUR 0090	N/A	6730.5	N/A	55.1	N/A
Xylene	4300	1100	N/A	11	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
Ethyl acetate	5620	N/A	N/A	N/A	N/A
Styrene	2650	N/A	2770	11.8	N/A
Propylene glycol	20000	20800	N/A	N/A	N/A
iso-butanol	2460	3400	N/A	N/A	N/A
cumene	N/A	N/A	N/A	39	N/A
Toluene	N/A	N/A	N/A	49	N/A

### Skin corrosion/irritation

#### Product/ingredient name

Titanium dioxide

#### Result

##### Human - Skin - Mild irritant

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 300 ug l

Xylene

##### Rat - Skin - Mild irritant

Duration of treatment/exposure: 8 hours

Amount/concentration applied: 60 uL

##### Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

n-Butyl acetate

##### Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

##### Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Ethylbenzene

##### Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 15 mg

Styrene

##### Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

##### Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

Propylene glycol

##### Child - Skin - Moderate irritant

Duration of treatment/exposure: 96 hours

Amount/concentration applied: 30 % C

##### Human - Skin - Mild irritant

Duration of treatment/exposure: 168 hours

Amount/concentration applied: 500 mg

##### Human - Skin - Moderate irritant

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 104 mg l

## SECTION 11: Toxicological information

	<b>Woman - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 96 hours <u>Amount/concentration applied:</u> 30 %
Dibutyltin dilaurate	<b>Rabbit - Skin - Severe irritant</b> <u>Amount/concentration applied:</u> 500 mg
cumene	<b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 10 mg
	<b>Rabbit - Skin - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
Toluene	<b>Pig - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 250 uL
	<b>Rabbit - Skin - Mild irritant</b> <u>Amount/concentration applied:</u> 435 mg
	<b>Rabbit - Skin - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg
	<b>Rabbit - Skin - Moderate irritant</b> <u>Amount/concentration applied:</u> 500 mg
benzene	<b>Rat - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 8 hours <u>Amount/concentration applied:</u> 60 uL
	<b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 15 mg
	<b>Rabbit - Skin - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### **Product/ingredient name**

Xylene

#### **Result**

**Rabbit - Eyes - Mild irritant**  
Amount/concentration applied: 87 mg

**Rabbit - Eyes - Severe irritant**  
Duration of treatment/exposure: 24 hours  
Amount/concentration applied: 5 mg

Solvent naphtha (petroleum), light aromatic

**Rabbit - Eyes - Mild irritant**  
Duration of treatment/exposure: 24 hours  
Amount/concentration applied: 100 uL

n-Butyl acetate

**Rabbit - Eyes - Moderate irritant**  
Amount/concentration applied: 100 mg

Ethylbenzene

**Rabbit - Eyes - Severe irritant**  
Amount/concentration applied: 500 mg

Styrene

**Human - Eyes - Mild irritant**  
Amount/concentration applied: 50 ppm

## SECTION 11: Toxicological information

	<b>Rabbit - Eyes - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
	<b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 100 mg
Propylene glycol	<b>Rabbit - Eyes - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
	<b>Rabbit - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 100 mg
Dibutyltin dilaurate	<b>Rabbit - Eyes - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
cumene	<b>Rabbit - Eyes - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
	<b>Rabbit - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 86 mg
Toluene	<b>Rabbit - Eyes - Mild irritant</b> <u>Duration of treatment/exposure:</u> 0.5 minutes <u>Amount/concentration applied:</u> 100 mg
	<b>Rabbit - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 870 ug
	<b>Rabbit - Eyes - Severe irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg
	<b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 0.1 MI
benzene	<b>Rabbit - Eyes - Moderate irritant</b> <u>Amount/concentration applied:</u> 88 mg
	<b>Rabbit - Eyes - Severe irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg
	<b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 0.1 MI

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

## SECTION 11: Toxicological information

### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### 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.

Not available.

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

Xylene  
Solvent naphtha (petroleum), light aromatic

n-Butyl acetate  
2-Methoxy-1-methylethyl acetate  
Ethyl acetate  
Styrene  
iso-butanol

Dibutyltin dilaurate  
cumene  
Toluene

#### **Result**

STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 1, H370  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H336 (Narcotic effects)

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

Xylene  
Ethylbenzene  
Styrene  
Dibutyltin dilaurate  
Toluene  
benzene

#### **Result**

STOT RE 2, H373 (oral, inhalation)  
STOT RE 2, H373 (hearing organs) (oral, inhalation)  
STOT RE 1, H372  
STOT RE 1, H372  
STOT RE 2, H373  
STOT RE 1, H372

### Aspiration hazard

#### **Product/ingredient name**

Xylene  
Solvent naphtha (petroleum), light aromatic  
Ethylbenzene  
Styrene  
cumene  
Toluene  
benzene

#### **Result**

ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

## SECTION 11: Toxicological information

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. 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** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- 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 [Product]** : Not available.

- General** : May cause damage to organs through prolonged or repeated exposure. 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

Titanium dioxide

#### Result

##### **Acute - LC50 - Marine water**

Fish - Mummichog - *Fundulus heteroclitus*  
>1000000 µg/l [96 hours]  
Effect: Mortality

##### **Acute - LC50 - Fresh water**

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours  
3 mg/l [48 hours]  
Effect: Mortality

Solvent naphtha (petroleum), light aromatic

**Acute - LC50**

## SECTION 12: Ecological information

	<p>Fish 9.2 mg/l [96 hours]</p> <p><b>Acute - EC50</b> Daphnia 3.2 mg/l [48 hours]</p>
n-Butyl acetate	<p><b>Acute - LC50 - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 31 to 32 days; <u>Size</u>: 21.6 mm; <u>Weight</u>: 0.175 g 18000 µg/l [96 hours] <u>Effect</u>: Mortality</p> <p><b>Acute - LC50 - Marine water</b> Crustaceans - Brine shrimp - <i>Artemia salina</i> 32 mg/l [48 hours] <u>Effect</u>: Mortality</p>
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<p><b>Acute - LC50</b> OECD [Fish, Acute Toxicity Test] Fish - <i>Brachydanio rerio</i> 0.9 mg/l [96 hours]</p> <p><b>EC50</b> OECD [Alga, Growth Inhibition Test] Aquatic plants - <i>Desmodesmodus subspicatus</i> 1.68 mg/l [72 hours]</p> <p><b>Chronic - NOEC</b> OECD [Daphnia Magna Reproduction Test] Daphnia - Daphnia 1 mg/l [21 days]</p>
Ethyl acetate	<p><b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia cucullata</i> <u>Age</u>: 11 days 154000 µg/l [48 hours] <u>Effect</u>: Mortality</p> <p><b>Acute - LC50 - Fresh water</b> Fish - Indian catfish - <i>Heteropneustes fossilis</i> <u>Size</u>: 14.16 cm; <u>Weight</u>: 25.54 g 212500 µg/l [96 hours] <u>Effect</u>: Mortality</p> <p><b>Acute - EC50 - Fresh water</b> Algae - Green algae - <i>Selenastrum sp.</i> 2500000 µg/l [96 hours]</p> <p><b>Chronic - NOEC - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> 12 mg/l [21 days] <u>Effect</u>: Behavior</p> <p><b>Chronic - NOEC - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> - Embryo <u>Age</u>: &lt;24 hours 75.6 mg/l [32 days] <u>Effect</u>: Mortality</p>
Styrene	<p><b>Acute - LC50 - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 30 days; <u>Size</u>: 19 mm; <u>Weight</u>: 0.101 g 4020 µg/l [96 hours] <u>Effect</u>: Mortality</p>



## SECTION 12: Ecological information

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

4700 µg/l [48 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*

720 µg/l [96 hours]

Effect: Population

### Chronic - NOEC - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*

63 µg/l [96 hours]

Effect: Population

Propylene glycol

### Acute - LC50 - Fresh water

EU

Fish - Trout - *Oncorhynchus mykiss*

40613 mg/l [96 hours]

### Acute - EC50 - Fresh water

EU

Algae - Algae

19300 mg/l [96 hours]

### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia*

Age: <24 hours

18340000 µg/l [48 hours]

Effect: Mortality

iso-butanol

### Acute - LC50 - Fresh water

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

### Acute - LC50 - Marine water

Crustaceans - Brine shrimp - *Artemia salina*

600 mg/l [48 hours]

Effect: Mortality

Dibutyltin dilaurate

### Chronic - EC10 - Fresh water

Algae - Green algae - *Desmodesmus subspicatus*

>2 mg/l [96 hours]

Effect: Histology

cumene

### Acute - LC50 - Fresh water

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

2700 µg/l [96 hours]

Effect: Mortality

### Acute - EC50 - Marine water

Crustaceans - Brine shrimp - *Artemia sp.* - Nauplii

Age: 2 to 3

7.4 mg/l [48 hours]

Effect: Intoxication

Toluene

### Acute - LC50 - Fresh water

Fish - Coho salmon,silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

5500 µg/l [96 hours]

Effect: Mortality

## SECTION 12: Ecological information

### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*  
12500 µg/l [72 hours]  
Effect: Growth

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*  
Age: ≤24 hours  
1000 µg/l [21 days]  
Effect: Reproduction

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate  
Age: ≤24 hours  
5.56 mg/l [48 hours]  
Effect: Intoxication

benzene

### Chronic - NOEC - Marine water

Fish - Striped bass - *Morone saxatilis* - Juvenile (Fledgling, Hatchling, Weanling)  
Size: 18.1 cm; Weight: 3.39 g  
1.5 to 5.4 µl/l [4 weeks]  
Effect: Growth

### Acute - LC50 - Fresh water

Fish - Pink salmon - *Oncorhynchus gorbuscha* - Fry  
5.28 µl/l [96 hours]  
Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*  
29000 µg/l [72 hours]  
Effect: Growth

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate  
Age: ≤24 hours  
9.23 mg/l [48 hours]  
Effect: Intoxication

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*  
Age: <24 hours  
98 mg/l [21 days]  
Effect: Reproduction

### Chronic - EC10 - Fresh water

Algae - Green algae - *Desmodesmus subspicatus*  
>1360 mg/l [96 hours]  
Effect: Population

**Conclusion/Summary [Product]** : Not available.

## 12.2 Persistence and degradability

### Product/ingredient name

iso-butanol

### Result

74% [28 days] - Readily

**Conclusion/Summary [Product]** : Not available.

## SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene glycol	-	-	Readily
iso-butanol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene	3.12	8.1 to 25.9	Low
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High
n-Butyl acetate	2.3	-	Low
Ethylbenzene	3.6	-	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Ethyl acetate	0.68	30	Low
Styrene	2.96	13.49	Low
Propylene glycol	-1.07	-	Low
iso-butanol	1	-	Low
Dibutyltin dilaurate	4.44	2.91	Low
cumene	3.55	35.48	Low
Toluene	2.73	90	Low
benzene	2.13	11	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Titanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	Yes	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	Yes	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	Yes	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Styrene	No	No	No	Yes	No	No	No
Propylene glycol	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Dibutyltin dilaurate	No	No	No	Yes	No	No	No
cumene	No	No	No	No	No	No	No
Toluene	No	No	No	Yes	No	No	No

## SECTION 12: Ecological information

benzene	No	No	No	Yes	No	No	No
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**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.





**European waste catalogue (EWC)** : 080111\*, 200127\*

#### 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN1263	UN1263	UN1263	UN1263
<b>14.2 UN proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>14.3 Transport hazard class(es)</b>	3 	3 	3 	3 
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

#### Additional information

**ADR/RID** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.  
**Tunnel code** (D/E)

**ADN** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**IMDG** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

**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.

## SECTION 14: Transport information

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

Product/ingredient name	%	Designation [Usage]
TEKNODUR 0090	≥90	3
Toluene	≤0.1	48
benzene	<0.1	5 72

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category
P5c

#### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
benzene	EH40/2005 WELs	-	Carc	-

#### 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.

## SECTION 15: Regulatory information

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

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
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	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.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

**Date of issue/Date of revision** : 11/12/2024 **Date of previous issue** : 02/02/2024 **Version** : 4 **30/32**

TEKNODUR 0090 - All variants

**Label No** : 00910

## SECTION 16: Other information

H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications

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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1A	CARCINOGENICITY - Category 1A
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. 1B	GERM CELL MUTAGENICITY - Category 1B
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
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 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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** : 11/12/2024

**Date of previous issue** : 02/02/2024

**Version** : 4

TEKNODUR 0090

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.

