

# SAFETY DATA SHEET



TEKNODUR COMBI 3560-93 - All variants

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

### 1.1 Product identifier

**Product name** : TEKNODUR COMBI 3560-93 - 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

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : In an emergency, call 112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 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** : Danger

**Hazard statements** : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary statements

**Prevention** : 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.  
P273 - Avoid release to the environment.

**Response** : P391 - Collect spillage.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 2: Hazards identification

<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Contains: bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane; 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-cyclohexanemethylamine; tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate and Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
<b>Supplemental label elements</b>	:
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:

### 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	Specific Conc. Limits, M-factors and ATEs	Type
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	REACH #: 01-0000015937-58 EC: 412-060-9 CAS: 136210-32-7 Index: 607-350-00-9	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤6	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-cyclohexanemethylamine	REACH #: 01-2119978283-28 EC: 259-393-4 CAS: 54914-37-3	<5	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	-	[1]

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2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤2.8	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
tetraethylN,N'-(methylenediclohexane-4,1-diyl)bis-dl-aspartate	REACH #: 01-0000017556-64 EC: 429-270-1 CAS: 136210-30-5 Index: 607-521-00-8	≤3	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 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[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 EC: 915-687-0 CAS: 1065336-91-5	≤0.3	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3 Index: 609-035-00-1	≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 2, H361 Aquatic Chronic 3, H412	ATE [Oral] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	REACH #: 01-2119977130-42 EC: 269-662-8	<0.1	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 500 mg/kg ATE [Dermal] = 528 mg/kg M [Acute] = 10 M [Chronic] = 1	[1]

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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 toxic 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  
nitrogen oxides  
sulfur oxides  
phosphorus 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 European standard 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. Do not breathe 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. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

- 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.

## SECTION 6: Accidental release measures

**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 E2	5000 tonnes 200 tonnes	50000 tonnes 500 tonnes

### 7.3 Specific end use(s)

**Recommendations** : Not available.

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

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Butylacetat alle Isomeren außer tert-Butylacet]</b> CEIL: 480 mg/m <sup>3</sup> . CEIL: 100 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m <sup>3</sup> 8 times per shift.
Xylene	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Xylo] (alle Isomeren, rein)]</b> PEAK 15 minutes: 442 mg/m <sup>3</sup> 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m <sup>3</sup> .
nitroethane	<b>Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.</b> TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m <sup>3</sup> . PEAK 15 minutes: 312 mg/m <sup>3</sup> 4 times per shift. PEAK 15 minutes: 100 ppm 4 times per shift.
n-Butyl acetate	<b>Limit values (Belgium, 12/2023) [butylacetaat]</b> STEL 15 minutes: 712 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	<b>Limit values (Belgium, 12/2023) Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
Xylene	<b>Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
nitroethane	<b>Limit values (Belgium, 12/2023) Absorbed through skin.</b> TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m <sup>3</sup> . STEL 15 minutes: 312 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
n-Butyl acetate	<b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Limit value 8 hours: 241 mg/m <sup>3</sup> . Limit value 15 minutes: 723 mg/m <sup>3</sup> . Limit value 15 minutes: 150 ppm. Limit value 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	<b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.</b> Limit value 8 hours: 275 mg/m <sup>3</sup> . Limit value 15 minutes: 550 mg/m <sup>3</sup> .

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Xylene	<p>Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.</p> <p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]</b> Absorbed through skin. Limit value 8 hours: 221 mg/m<sup>3</sup>. Limit value 15 minutes: 442 mg/m<sup>3</sup>. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.</p>
nitroethane	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Absorbed through skin. Limit value 15 minutes: 100 ppm. Limit value 15 minutes: 312 mg/m<sup>3</sup>. Limit value 8 hours: 20 ppm. Limit value 8 hours: 62 mg/m<sup>3</sup>.</p>
 n-Butyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> STELV 15 minutes: 723 mg/m<sup>3</sup>. STELV 15 minutes: 150 ppm. ELV 8 hours: 241 mg/m<sup>3</sup>. ELV 8 hours: 50 ppm.</p>
Solvent naphtha (petroleum), light aromatic	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia)</b> ELV: 100 ppm. ELV: 400 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin. STELV 15 minutes: 550 mg/m<sup>3</sup>. STELV 15 minutes: 100 ppm. ELV 8 hours: 275 mg/m<sup>3</sup>. ELV 8 hours: 50 ppm.</p>
Xylene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen]</b> Absorbed through skin. STELV 15 minutes: 442 mg/m<sup>3</sup>. STELV 15 minutes: 100 ppm. ELV 8 hours: 221 mg/m<sup>3</sup>. ELV 8 hours: 50 ppm.</p>
nitroethane	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin. STELV 15 minutes: 100 ppm. STELV 15 minutes: 312 mg/m<sup>3</sup>. ELV 8 hours: 20 ppm. ELV 8 hours: 62 mg/m<sup>3</sup>.</p>
 n-Butyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά]</b> Absorbed through skin.</p>

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nitroethane	<p>STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 312 mg/m<sup>3</sup>.          TWA 8 hours: 20 ppm.          TWA 8 hours: 62 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b>          TWA 8 hours: 241 mg/m<sup>3</sup>.          STEL 15 minutes: 723 mg/m<sup>3</sup>.          STEL 15 minutes: 150 ppm.          TWA 8 hours: 50 ppm.</p>
Solvent naphtha (petroleum), light aromatic	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [nafta solventní]</b>          TWA 8 hours: 200 mg/m<sup>3</sup>.          STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Absorbed through skin.          TWA 8 hours: 275 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen]</b> Absorbed through skin.          TWA 8 hours: 200 mg/m<sup>3</sup>.          TWA 8 hours: 45.33 ppm.          STEL 15 minutes: 400 mg/m<sup>3</sup>.          STEL 15 minutes: 90.66 ppm.</p>
nitroethane	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Absorbed through skin.          TWA 8 hours: 62 mg/m<sup>3</sup>.          STEL 15 minutes: 312 mg/m<sup>3</sup>.          TWA 8 hours: 20 ppm.          STEL 15 minutes: 100 ppm.</p>
n-Butyl acetate	<p><b>Working Environment Authority (Denmark, 12/2024) [butylacetat, alle isomerer]</b>          TWA 8 hours: 50 ppm.          TWA 8 hours: 241 mg/m<sup>3</sup>.          STEL 15 minutes: 723 mg/m<sup>3</sup>.          STEL 15 minutes: 150 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Working Environment Authority (Denmark, 12/2024) [2-methoxy-1-methylethylacetat]</b> Absorbed through skin.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.          STEL 15 minutes: 550 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Working Environment Authority (Denmark, 12/2024) [xylen, alle isomere]</b> Absorbed through skin.          TWA 8 hours: 25 ppm.          TWA 8 hours: 109 mg/m<sup>3</sup>.          STEL 15 minutes: 442 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.</p>
nitroethane	<p><b>Working Environment Authority (Denmark, 12/2024)</b> Absorbed through skin.          TWA 8 hours: 20 ppm.          TWA 8 hours: 62 mg/m<sup>3</sup>.          STEL 15 minutes: 312 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.</p>

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Butyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin , Sensitiser.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.            TWA 8 hours: 275 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
Xylene	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 450 mg/m<sup>3</sup>.            TWA 8 hours: 200 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b>            TWA 8 hours: 60 mg/m<sup>3</sup>.            TWA 8 hours: 20 ppm.            STEL 15 minutes: 150 mg/m<sup>3</sup>.            STEL 15 minutes: 50 ppm.</p>
Butyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 312 mg/m<sup>3</sup>.            TWA 8 hours: 20 ppm.            TWA 8 hours: 62 mg/m<sup>3</sup>.</p>
Butyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>            TWA 8 hours: 150 ppm.            TWA 8 hours: 720 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 960 mg/m<sup>3</sup>.</p>
Solvent naphtha (petroleum), light aromatic	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020)</b>            TWA 8 hours: 100 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 270 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni]</b> Absorbed through skin.</p>

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nitroethane	<p>STEL 15 minutes: 440 mg/m<sup>3</sup>.  TWA 8 hours: 220 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  STEL 15 minutes: 100 ppm.</p> <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 62 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 312 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b>  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 241 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 723 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Solvent naphtha (petroleum), light aromatic	<p><b>Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12]</b>  TWA 8 hours: 1000 mg/m<sup>3</sup>. Form: Vapour. Notes: Permissible limit values (circulars)  STEL 15 minutes: 1500 mg/m<sup>3</sup>. Form: Vapour. Notes: Permissible limit values (circulars)</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.  STEL 15 minutes: 550 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 275 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Xylene	<p><b>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs]</b> Absorbed through skin.  STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 221 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
nitroethane	<p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.  TWA 8 hours: 20 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)  TWA 8 hours: 62 mg/m<sup>3</sup>. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)  STEL 15 minutes: 312 mg/m<sup>3</sup>. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)  STEL 15 minutes: 100 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)</p>
n-Butyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>  TWA 8 hours: 300 mg/m<sup>3</sup>.  TWA 8 hours: 62 ppm.  PEAK 15 minutes: 600 mg/m<sup>3</sup>.  PEAK 15 minutes: 124 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.  TWA 8 hours: 100 ppm.  PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour].  TWA 8 hours: 480 mg/m<sup>3</sup>.  PEAK 15 minutes: 960 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>

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2-Methoxy-1-methylethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>  TWA 8 hours: 270 mg/m<sup>3</sup>.  PEAK 15 minutes: 270 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  PEAK 15 minutes: 50 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.  TWA 8 hours: 50 ppm.  PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].  TWA 8 hours: 270 mg/m<sup>3</sup>.  PEAK 15 minutes: 270 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Xylene	<p><b>TRGS 900 OEL (Germany, 6/2024) [Xylo]</b> Absorbed through skin.  TWA 8 hours: 220 mg/m<sup>3</sup>.  PEAK 15 minutes: 440 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  PEAK 15 minutes: 100 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024) [Xylene]</b> Develop D.  Absorbed through skin.  TWA 8 hours: 50 ppm.  PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].  TWA 8 hours: 220 mg/m<sup>3</sup>.  PEAK 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
nitroethane	<p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.  TWA 8 hours: 31 mg/m<sup>3</sup>.  TWA 8 hours: 10 ppm.  PEAK 15 minutes: 124 mg/m<sup>3</sup>.  PEAK 15 minutes: 40 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop D. Absorbed through skin.  TWA 8 hours: 10 ppm.  PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].  TWA 8 hours: 31 mg/m<sup>3</sup>.  PEAK 15 minutes: 124 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
n-Butyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 275 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)]</b> Absorbed through skin.  TWA 8 hours: 100 ppm.  TWA 8 hours: 435 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 650 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 62 mg/m<sup>3</sup>.  STEL 15 minutes: 312 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>

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<p> Butyl acetate</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b> Sensitiser. TWA 8 hours: 241 mg/m<sup>3</sup>. PEAK 15 minutes: 723 mg/m<sup>3</sup>. PEAK 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b> TWA 8 hours: 275 mg/m<sup>3</sup>. PEAK 15 minutes: 550 mg/m<sup>3</sup>. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.</p>
<p>Xylene</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek keveréke]</b> Absorbed through skin. TWA 8 hours: 221 mg/m<sup>3</sup>. PEAK 15 minutes: 442 mg/m<sup>3</sup>. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.</p>
<p>nitroethane</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b> Absorbed through skin. TWA 8 hours: 62 mg/m<sup>3</sup>. PEAK 15 minutes: 312 mg/m<sup>3</sup>. PEAK 15 minutes: 100 ppm. TWA 8 hours: 20 ppm.</p>
<p> Butyl acetate</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [bútýlasetat, allir ísómerar]</b> TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 550 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
<p>Xylene</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Xýlen, allir ísómerar]</b> Absorbed through skin. STEL 15 minutes: 442 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm.</p>
<p>nitroethane</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. TWA 8 hours: 62 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 312 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm.</p>
<p> Butyl acetate</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m<sup>3</sup>. OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 mg/m<sup>3</sup>.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 275 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 15 minutes: 550 mg/m<sup>3</sup>.</p>
<p>Xylene</p>	<p><b>NAOSH (Ireland, 4/2024) [xylene]</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m<sup>3</sup>.</p>

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Zinc oxide	<p>OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m<sup>3</sup>.</p> <p><b>NAOSH (Ireland, 4/2024)</b> Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m<sup>3</sup>. Form: respirable fraction. OELV 15 minutes: 10 mg/m<sup>3</sup>. Form: fume.</p>
nitroethane	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 15 minutes: 312 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 8 hours: 62 mg/m<sup>3</sup>. OELV 8 hours: 20 ppm.</p>
 n-Butyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b> Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 723 mg/m<sup>3</sup>. Limit value 8 hours: 50 ppm. Limit value 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b> Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 275 mg/m<sup>3</sup>. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b> <b>[xylene, isomeri misti, puro]</b> Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m<sup>3</sup>. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b> Absorbed through skin. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 312 mg/m<sup>3</sup>. Limit value 8 hours: 20 ppm. Limit value 8 hours: 62 mg/m<sup>3</sup>.</p>
 n-Butyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b> TWA 8 hours: 241 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b> <b>[Ksilols]</b> Absorbed through skin. TWA 8 hours: 221 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b> Absorbed through skin. TWA 8 hours: 30 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 312 mg/m<sup>3</sup>. TWA 8 hours: 9.6 ppm.</p>

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Butyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            Absorbed through skin.            TWA 8 hours: 250 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 400 mg/m<sup>3</sup>.            STEL 15 minutes: 75 ppm.</p>
Xylene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>  <b>[ksilenas, mišrūs izomerai, grynas]</b> Absorbed through skin.            STEL 15 minutes: 442 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
Zinc oxide	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 5 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            Absorbed through skin.            TWA 8 hours: 62 mg/m<sup>3</sup>.            TWA 8 hours: 20 ppm.            STEL 15 minutes: 150 mg/m<sup>3</sup>.            STEL 15 minutes: 50 ppm.</p>
Butyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]</b>            Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 312 mg/m<sup>3</sup>.            TWA 8 hours: 20 ppm.            TWA 8 hours: 62 mg/m<sup>3</sup>.</p>
Butyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.</p>

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nitroethane	<p>TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m<sup>3</sup>.</p> <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 312 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> TWA 8 hours: 241 mg/m<sup>3</sup>. STEL 15 minutes: 723 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> TWA 8 hours: 550 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.</p>
Xylene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren]</b> Absorbed through skin. TWA 8 hours: 210 mg/m<sup>3</sup>. STEL 15 minutes: 442 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 47.5 ppm.</p>
nitroethane	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> Absorbed through skin. STEL 15 minutes: 312 mg/m<sup>3</sup>. TWA 8 hours: 62 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 20 ppm.</p>
n-Butyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> STEL 15 minutes: 723 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m<sup>3</sup>.</p>
Xylene	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024) [xylen]</b> Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m<sup>3</sup>. STEL 15 minutes: 312 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm.</p>
n-Butyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 720 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin. TWA 8 hours: 260 mg/m<sup>3</sup>.</p>

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Xylene	<p>STEL 15 minutes: 520 mg/m<sup>3</sup>.  <b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)]</b> Absorbed through skin.  TWA 8 hours: 100 mg/m<sup>3</sup>.  STEL 15 minutes: 200 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin.  TWA 8 hours: 62 mg/m<sup>3</sup>.  STEL 15 minutes: 186 mg/m<sup>3</sup>.  STEL 15 minutes: 27.7 ppm.  TWA 8 hours: 20 ppm.</p>
n-Butyl acetate	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>  TWA 8 hours: 150 ppm.  STEL 15 minutes: 200 ppm.  <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b>  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  TWA 8 hours: 275 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m &amp; p)] A4.</b>  TWA 8 hours: 100 ppm.  STEL 15 minutes: 150 ppm.  <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos]</b> Absorbed through skin.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 442 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>  TWA 8 hours: 100 ppm.  <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 312 mg/m<sup>3</sup>.  TWA 8 hours: 20 ppm.  TWA 8 hours: 62 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>  VLA 8 hours: 241 mg/m<sup>3</sup>.  VLA 8 hours: 50 ppm.  Short term 15 minutes: 723 mg/m<sup>3</sup>.  Short term 15 minutes: 150 ppm.</p>
Solvent naphtha (petroleum), light aromatic	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Solvent nafta]</b> Absorbed through skin.  VLA 8 hours: 100 mg/m<sup>3</sup>.</p>

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2-Methoxy-1-methylethyl acetate	<p>Short term 15 minutes: 200 mg/m<sup>3</sup>.  <b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.            VLA 8 hours: 275 mg/m<sup>3</sup>.            VLA 8 hours: 50 ppm.            Short term 15 minutes: 550 mg/m<sup>3</sup>.            Short term 15 minutes: 100 ppm.</p>
Xylene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen]</b> Absorbed through skin.            VLA 8 hours: 221 mg/m<sup>3</sup>.            VLA 8 hours: 50 ppm.            Short term 15 minutes: 442 mg/m<sup>3</sup>.            Short term 15 minutes: 100 ppm.</p>
nitroethane	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>            VLA 8 hours: 62 mg/m<sup>3</sup>.            VLA 8 hours: 20 ppm.            Short term 15 minutes: 312 mg/m<sup>3</sup>.            Short term 15 minutes: 100 ppm.</p>
n-Butyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [butylacetáty]</b> Inhalation sensitiser.            TWA 8 hours: 241 mg/m<sup>3</sup> (Butyl acetates).            TWA 8 hours: 50 ppm (Butyl acetates).            STEL 15 minutes: 723 mg/m<sup>3</sup> (Butyl acetates).            STEL 15 minutes: 150 ppm (Butyl acetates).</p>
2-Methoxy-1-methylethyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>            Absorbed through skin , Inhalation sensitiser.            TWA 8 hours: 275 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén, zmiešané izoméry]</b> Absorbed through skin , Inhalation sensitiser.            TWA 8 hours: 221 mg/m<sup>3</sup> (xylene, mixed isomers).            TWA 8 hours: 50 ppm (xylene, mixed isomers).            STEL 15 minutes: 442 mg/m<sup>3</sup> (xylene, mixed isomers).            STEL 15 minutes: 100 ppm (xylene, mixed isomers).</p>
nitroethane	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>            Absorbed through skin , Inhalation sensitiser.            STEL 15 minutes: 312 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 62 mg/m<sup>3</sup>.            TWA 8 hours: 20 ppm.</p>
n-Butyl acetate	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            KTV 15 minutes: 723 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].            KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
2-Methoxy-1-methylethyl acetate	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>            Absorbed through skin.            TWA 8 hours: 275 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            KTV 15 minutes: 550 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].            KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
Xylene	<p><b>Regulation on protection of workers from the risks related to</b></p>

## SECTION 8: Exposure controls/personal protection

nitroethane	<p><b>exposure to chemical substances at work (Slovenia, 4/2024)</b>  <b>[ksilen]</b> Absorbed through skin.  TWA 8 hours: 221 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  KTV 15 minutes: 442 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].  KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p> <p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>  Absorbed through skin.  TWA 8 hours: 62 mg/m<sup>3</sup>.  TWA 8 hours: 20 ppm.  KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].  KTV 15 minutes: 312 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
n-Butyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 275 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros]</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 221 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
nitroethane	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 62 mg/m<sup>3</sup>.  STEL 15 minutes: 312 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>
n-Butyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate]</b>  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 275 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene]</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 221 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Zinc oxide	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b>  TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Total dust.</p>

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nitroethane	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 150 mg/m <sup>3</sup> .
<input checked="" type="checkbox"/> Butyl acetate	<b>SUVA (Switzerland, 1/2025)</b> TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 720 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>SUVA (Switzerland, 1/2025)</b> TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m <sup>3</sup> .
Xylene	<b>SUVA (Switzerland, 1/2025) [Xylol]</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m <sup>3</sup> .
nitroethane	<b>SUVA (Switzerland, 1/2025)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 312 mg/m <sup>3</sup> .
<input checked="" type="checkbox"/> 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.
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.
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.
nitroethane	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 312 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 62 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.

### Biological exposure indices

Product/ingredient name	Exposure indices
<input checked="" type="checkbox"/> Xylene	<b>VGU BEI (Austria, 9/2020) [Xylole]</b> BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuric acid [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	

## SECTION 8: Exposure controls/personal protection

Xylene

**Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen]**

BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine].  
Sampling time: at the end of the work shift.

BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.

Xylene

**Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny]**

Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

**Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Ksyleeni]**

BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.

Xylene

**DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]**

Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.

**TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle Isomeren]**

BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

Xylene

**5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol]**

BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].

Sampling time: at the end of the shift.

BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].

Sampling time: at the end of the shift.

No exposure indices known.

Xylene

**NAOSH BGVs (Ireland, 1/2011) [Xylene]**

BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].

Sampling time: end of shift - As soon as possible after exposure ceases.

No exposure indices known.

Xylene

**Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [ksiloli (visi izomēri)]**

BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine].

Sampling time: at the end of the exposure or at the end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

## SECTION 8: Exposure controls/personal protection

<p>No exposure indices known.</p> <p>No exposure indices known.</p> <p>Xylene</p> <p>Xylene</p> <p>Xylene</p> <p>Xylene</p> <p>Xylene</p> <p>Xylene</p> <p>No exposure indices known.</p> <p>Xylene</p> <p>Xylene</p>	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)]</b> BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.</p> <p><b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen]</b> OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.</p> <p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén (všetky izoméry)]</b> BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.</p> <p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen (vse izomere)]</b> BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.</p> <p><b>National institute of occupational safety and health (Spain, 1/2024) [Xilenos]</b> VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p> <p><b>SUVA (Switzerland, 1/2025) [Xylol (alle Isomere)]</b> BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.</p> <p><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.</p>
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**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following:  
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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

## SECTION 8: Exposure controls/personal protection

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

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

4.2 mg/kg bw/day

Effects: Systemic

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

4.2 mg/kg bw/day

Effects: Systemic

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

4.2 mg/kg bw/day

Effects: Systemic

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

4.2 mg/kg bw/day

Effects: Systemic

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

11.9 mg/kg bw/day

Effects: Systemic

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

14.5 mg/m<sup>3</sup>

Effects: Systemic

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

14.5 mg/m<sup>3</sup>

Effects: Systemic

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

84 mg/m<sup>3</sup>

Effects: Systemic

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

672 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

**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>

## SECTION 8: Exposure controls/personal protection

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

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

1,3,3-trimethyl-N-(2-methylpropylidene)-5-[  
(2-methylpropylidene)amino]-  
cyclohexanemethylamine

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

0.3 mg/kg bw/day

Effects: Systemic

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

0.073 mg/m<sup>3</sup>

Effects: Local

## SECTION 8: Exposure controls/personal protection

2-Methoxy-1-methylethyl acetate	<b>DNEL - Workers - Long term - Inhalation</b> 0.073 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Inhalation</b> 33 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Inhalation</b> 33 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Oral</b> 36 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 275 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 320 mg/kg bw/day <u>Effects</u> : Systemic
tetraethylN,N'-(methylenediclohexane-4,1-diyl)bis-dl-aspartate	<b>DNEL - Workers - Short term - Inhalation</b> 550 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Dermal</b> 796 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Oral</b> 1.4 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Oral</b> 1.4 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Dermal</b> 1.4 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 1.4 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 4 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 4.8 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 4.8 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 28 mg/m <sup>3</sup> <u>Effects</u> : Systemic
<b>DNEL - Workers - Short term - Inhalation</b> 112 mg/m <sup>3</sup>	

## SECTION 8: Exposure controls/personal protection

Xylene

Effects: Systemic

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

5 mg/kg bw/day

Effects: Systemic

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

65.3 mg/m<sup>3</sup>

Effects: Local

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

65.3 mg/m<sup>3</sup>

Effects: Systemic

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

125 mg/kg bw/day

Effects: Systemic

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

212 mg/kg bw/day

Effects: Systemic

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

221 mg/m<sup>3</sup>

Effects: Local

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

221 mg/m<sup>3</sup>

Effects: Systemic

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

260 mg/m<sup>3</sup>

Effects: Local

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

260 mg/m<sup>3</sup>

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

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

## SECTION 8: Exposure controls/personal protection

nitroethane

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

2 mg/m<sup>3</sup>

Effects: Systemic

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

5 mg/m<sup>3</sup>

Effects: Local

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

5 mg/m<sup>3</sup>

Effects: Systemic

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

8.4 mg/m<sup>3</sup>

Effects: Systemic

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

15 mg/m<sup>3</sup>

Effects: Local

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

17 mg/m<sup>3</sup>

Effects: Systemic

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

25 mg/m<sup>3</sup>

Effects: Local

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

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

Effects: Local

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

210 mg/kg bw/day

Effects: Systemic

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

350 mg/kg bw/day

Effects: Systemic

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

1250 mg/kg bw/day

Effects: Systemic

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

2100 mg/kg bw/day

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

*Date of issue*/*Date of revision*

: 02/02/2026

*Date of previous issue*

: 07/11/2022

*Version* : 6.01 27/44

EKNODUR COMBI 3560-93 - All variants

**Label No** : 40545

## SECTION 8: Exposure controls/personal protection

- 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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 European Standard 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.

## SECTION 9: Physical and chemical properties

**Initial boiling point and boiling range** :

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

**Flammability** : Not available.

**Lower and upper explosion limit** : Lower: 0.8% (xylene)  
Upper: 7.6% (n-butyl acetate)

**Flash point** : Closed cup: 25°C (77°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** : 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
Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Xylene	6.7	0.89				

**Relative density** : Not available.

**Density** : 0.6 g/cm<sup>3</sup>

**Vapour density** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

### 9.2.2 Other safety characteristics

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** : 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.

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**Version** : 6.01 29/44

EKNODUR COMBI 3560-93 - All variants

**Label No** : 40545

## SECTION 10: Stability and reactivity

**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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product/ingredient name

Butyl acetate

##### Result

###### Rat - Oral - LD50

10760 mg/kg  
EU

###### Rabbit - Dermal - LD50

14112 mg/kg

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

0.74 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

2-Methoxy-1-methylethyl acetate

###### Rat - Oral - LD50

8532 mg/kg

###### Rabbit - Dermal - LD50

>5 g/kg

Xylene

###### 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]

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

###### Rat - Oral - LD50

3230 mg/kg

###### Rat - Dermal - LD50

>3170 mg/kg

nitroethane

###### Rat - Oral - LD50

1100 mg/kg

Toxic effects: Behavioral - General anesthetic Behavioral - Tremor Behavioral - Excitement

Quaternary ammonium compounds, C12-14 (evennumbered) -alkylethyldimethyl, ethyl sulphates

###### Rabbit - Dermal - LD50

528 mg/kg

**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 COMBI 3560-93	N/A	89285.3	N/A	892.9	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	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 nitroethane	3230	N/A	N/A	N/A	N/A
Quaternary ammonium compounds, C12-14 (evennumbered) -alkylethyldimethyl, ethyl sulphates	1100	N/A	N/A	11	N/A
	500	528	N/A	N/A	N/A

### Skin corrosion/irritation

#### Product/ingredient name

n-Butyl acetate

Xylene

Zinc oxide

#### Result

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**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

**Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 100 %

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

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

### Serious eye damage/eye irritation

#### Product/ingredient name

Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

n-Butyl acetate

Solvent naphtha (petroleum), light aromatic

Xylene

Zinc oxide

#### Result

**Rabbit - Eyes - Mild irritant**

**Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 100 mg

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 uL

**Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 87 mg

**Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

## SECTION 11: Toxicological information

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

**Ingredient name**

Diis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

**Conclusion/Summary**

Non-irritating to the eyes.

**Respiratory corrosion/irritation**

Not available.

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

**Respiratory or skin sensitization**

Not available.

**Skin**

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

**Respiratory**

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

**Germ cell mutagenicity**

Not available.

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

**Carcinogenicity**

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**

n-Butyl acetate  
Solvent naphtha (petroleum), light aromatic

2-Methoxy-1-methylethyl acetate  
Xylene

**Result**

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

**Specific target organ toxicity (repeated exposure)**

**Product/ingredient name**

Xylene

**Result**

STOT RE 2, H373 (oral, inhalation)

**Aspiration hazard**

**Product/ingredient name**

Solvent naphtha (petroleum), light aromatic  
Xylene

**Result**

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 damage.  
**Inhalation** : No known significant effects or critical hazards.  
**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  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### 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** : 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.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

#### **Result**

**Acute - LC50**

Fish  
66 mg/l [96 hours]

**Acute - EC50**

Daphnia  
88.6 mg/l [48 hours]

**Acute - EC50**

## SECTION 12: Ecological information

	Algae 113 mg/l [72 hours]
n-Butyl acetate	<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  <b>Acute - LC50 - Marine water</b> Crustaceans - Brine shrimp - <i>Artemia salina</i> 32 mg/l [48 hours] <u>Effect</u> : Mortality
Trizinc bis(orthophosphate)	<b>Acute - EC50</b> Crustaceans - <i>Ceriodaphnia dubia</i> 0.96 mg/l [48 hours]  <b>Acute - EC50</b> Algae - <i>Selenastrum capricornutum</i> 0.32 mg/l [72 hours]
Solvent naphtha (petroleum), light aromatic	<b>Acute - LC50</b> Fish 9.2 mg/l [96 hours]  <b>Acute - EC50</b> Daphnia 3.2 mg/l [48 hours]
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	<b>Acute - LC50</b> Fish 66 mg/l [96 hours]  <b>Acute - EC50</b> Daphnia 88.6 mg/l [48 hours]  <b>Acute - EC50</b> Algae 113 mg/l [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	<b>Acute - LC50</b> OECD [Fish, Acute Toxicity Test] Fish - <i>Brachydanio rerio</i> 0.9 mg/l [96 hours]  <b>EC50</b> OECD [Alga, Growth Inhibition Test] Aquatic plants - <i>Desmodesmodus subspicatus</i> 1.68 mg/l [72 hours]  <b>Chronic - NOEC</b> OECD [Daphnia Magna Reproduction Test] Daphnia - Daphnia 1 mg/l [21 days]
Zinc oxide	<b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u> : <24 hours 98 µg/l [48 hours] <u>Effect</u> : Mortality  <b>Acute - IC50 - Fresh water</b> Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> -

## SECTION 12: Ecological information

Exponential growth phase  
46 µg/l [72 hours]  
Effect: Population

### Acute - LC50 - Fresh water

US EPA  
Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*  
Weight: 0.78 g  
1.1 ppm [96 hours]  
Effect: Mortality

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

### 12.2 Persistence and degradability

Not available.

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	5.99	0.25 [OECD 305 E]	Low
n-Butyl acetate	2.3	-	Low
Trizinc bis(orthophosphate)	-	60960	High
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High
2-Methoxy-1-methylethyl acetate	1.2	-	Low
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	5.16	0.25 [OECD 305 E]	Low
Xylene	3.12	8.1 to 25.9	Low
Zinc oxide	-	28960	High
nitroethane	0.18	-	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	4.9	73137.1
n-Butyl acetate	1.5	33.2139
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-cyclohexanemethylamine	3.1	1243.57
2-Methoxy-1-methylethyl acetate	0.36	2.31363
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	4.7	49262.1
nitroethane	0.95	8.81484

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
1,3,3-trimethyl-N-	No	No	No	No	No	No	No

## SECTION 12: Ecological information

(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-cyclohexanemethylamine	No						
2-Methoxy-1-methylethyl acetate	No						
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	No						
Xylene	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						
Zinc oxide	No						
nitroethane	No						
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	No						

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	No	N/A	No	No	No	N/A	No
n-Butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	N/A	No	No	No	N/A	No
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-cyclohexanemethylamine	No	N/A	N/A	No	N/A	N/A	N/A
2-Methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	No	N/A	No	No	No	N/A	No
Xylene	No	N/A	No	Yes	No	N/A	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	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Zinc oxide	No	No	No	No	No	No	No
nitroethane	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	No	N/A	N/A	No	N/A	N/A	N/A

#### Regulation (EC) No. 1272/2008 [CLP]

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[2-methylpropylidene]amino]-cyclohexanemethylamine	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	No	No	No	No	No	No	No
1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
nitroethane	No	No	No	No	No	No	No
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	No	No	No	No	No	No	No

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 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\*, 200127\*

#### Packaging

## SECTION 13: Disposal considerations

- 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Tunnel code** (D/E)
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

- 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 Maritime 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 EU Regulation (EC) No. 1907/2006 (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.

## SECTION 15: Regulatory information

### 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 COMBI 3560-93	≥90	3

Labelling :

#### Other EU regulations

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

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

Explosive precursors : Not applicable.

#### Ozone depleting substances (EU 2024/590)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

##### Category

P5c  
E2

#### National regulations

##### Austria

VbF class : Category 3

Limitation of the use of organic solvents : Permitted.

##### Belgium

#### Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Silice Noirs de charbon	Listed Listed

##### Czech Republic

Storage code : II

##### Denmark

Fire class : F-1

#### Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Titanium dioxide	Listed	-
Ethylbenzene	Listed	-

MAL-code : 5-6

## SECTION 15: Regulatory information

**Protection based on MAL** : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

**MAL-code:** 5-6

**Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in existing\* spray booths, if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and protective clothing must be worn.

When spraying in new\* booths if the operator is outside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

**Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

**List of undesirable substances** : Not listed

## SECTION 15: Regulatory information

**Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

### Finland

### France

**Social Security Code, Articles L 461-1 to L 461-7** :  n-Butyl acetate RG 84  
Solvent naphtha (petroleum), light aromatic RG 84  
2-Methoxy-1-methylethyl acetate RG 84  
Xylene RG 4bis, RG 84  
nitroethane RG 84

**Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

### Germany

**Storage class (TRGS 510)** : 3

### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

### Danger criteria

Category	Reference number
P5c	1.2.5.3
E2	1.3.2

**Hazard class for water** : 2

### Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<input checked="" type="checkbox"/> 5.2.1	Total dust	47.1
5.2.5	Organic substances	43.8
5.2.5 [I]	Organic substances	14.8
5.2.5 [II]	Organic substances	0.16
5.2.10	Soil polluting substances	9

**AOX** : The product contains organically bound halogens and can contribute to the AOX value in waste water.

### Italy

**D.Lgs. 152/06** :  Not determined.

### Netherlands

**Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances**

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
<input checked="" type="checkbox"/> Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
xyleen	-	-	-	Development 2	-
silica kristallijn; respirabel stof	Listed	-	-	-	-

**Water Discharge Policy (ABM)** : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

### Norway

### Sweden

**Flammable liquid class (SRVFS 2005:10)** : 2a

### Switzerland

**VOC content** : VOC (w/w): 19.1%

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

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Not listed.

### [Montreal Protocol](#)

Not listed.

### [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  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = 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 according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

### [Full text of abbreviated H statements](#)

✔H226	Flammable liquid and vapour.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
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.
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.

## SECTION 16: Other information

### [Full text of classifications \[CLP/GHS\]](#)

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 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
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
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 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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.

