## SAFETY DATA SHEET



#### **TEKNOSOLV 9506**

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

#### 1.1 Product identifier

Product name : TEKNOSOLV 9506

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

Product use : Solvent.

#### 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 : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

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

#### 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 STOT SE 3, H335 STOT SE 3, H336

STOT RE 2, H373

Asp. Tox. 1, H304

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.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

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

H411 - Toxic to aquatic life with long lasting effects.

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### **SECTION 2: Hazards identification**

#### **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.

: P391 - Collect spillage. Response

**Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: Contains: Solvent naphtha (petroleum), light aromatic; Xylene and iso-butanol

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Annex XVII - Restrictions** 

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification : None known.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

| Product/ingredient name                     | Identifiers   | %         | Classification   | Specific Conc.<br>Limits, M-factors<br>and ATEs                             | Туре    |
|---|---|-----------|--|---|---------|
| Solvent naphtha (petroleum), light aromatic | REACH #:<br>01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6<br>Index: 649-356-00-4 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411<br>EUH066  | -   | [1]     |
| Xylene                                      | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9  | ≥25 - ≤45 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>(oral, inhalation)<br>Asp. Tox. 1, H304 | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 11 mg/<br>I | [1] [2] |
| iso-butanol                                 | REACH #:<br>01-2119484609-23<br>EC: 201-148-0<br>CAS: 78-83-1<br>Index: 603-108-00-1    | ≥25 - ≤50 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336  | -   | [1]     |
| Ethylbenzene                                | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4                          | <9.9      | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs) (oral,   | ATE [Inhalation<br>(vapours)] = 11 mg/<br>I                                 | [1] [2] |

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| SECTION 3: Composition/information on ingredients |   |    |   |   |         |
|---|---|----|---|---|---------|
|   | Index: 601-023-00-4   |    | inhalation)<br>Asp. Tox. 1, H304  |   |         |
| 1-Methoxy 2-propanol                              | REACH #:<br>01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3 | ≤5 | Flam. Liq. 3, H226<br>STOT SE 3, H336   | - | [1] [2] |
|   |   |    | See Section 16 for<br>the full text of the H<br>statements declared<br>above. |   |         |

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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.

#### **Skin contact**

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with 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. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. 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

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#### **SECTION 4: First aid measures**

**Eve contact** : Adverse symptoms may include the following:

> watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

> stomach pains nausea or vomiting

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

**Unsuitable extinguishing** 

media

: Do not use water jet.

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

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

#### 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.

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#### **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.

#### 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). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. 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

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## **SECTION 7: Handling and storage**

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

#### **Seveso Directive - Reporting thresholds**

#### **Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonnes                     | 50000 tonnes            |
| E2       | 200 tonnes                      | 500 tonnes              |

#### 7.3 Specific end use(s)

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

## **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  |
|-------------------------|--|
| Xylene                  | Regulation on Limit Values - MAC (Austria, 4/2021) [Xylol (alle  |
|                         | Isomeren, rein)] PEAK 15 minutes: 442 mg/m³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³.  |
| iso-butanol             | Regulation on Limit Values - MAC (Austria, 4/2021) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)]  PEAK 15 minutes: 200 ppm 4 times per shift.  TWA 8 hours: 150 mg/m³.  TWA 8 hours: 50 ppm.   |
| Ett. II                 | PEAK 15 minutes: 600 mg/m³ 4 times per shift.  |
| 1-Methoxy 2-propanol    | Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 100 ppm.  TWA 8 hours: 440 mg/m³.  CEIL 5 minutes: 200 ppm 8 times per shift.  CEIL 5 minutes: 880 mg/m³ 8 times per shift.  Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 187 mg/m³.  CEIL: 50 ppm.  CEIL: 187 mg/m³. |
| Xylene                  | Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.   |
| iso-butanol             | Limit values (Belgium, 12/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m³.   |
| Ethylbenzene            | Limit values (Belgium, 12/2023) Absorbed through skin.   |

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TWA 8 hours: 20 ppm. TWA 8 hours: 87 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 mg/m<sup>3</sup>.

1-Methoxy 2-propanol Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m<sup>3</sup>.

**Xylene** Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]

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.

Ministry of Labour and Social Policy and the Ministry of Ethylbenzene

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 435 mg/m<sup>3</sup>. Limit value 15 minutes: 545 mg/m<sup>3</sup>.

Ministry of Labour and Social Policy and the Ministry of 1-Methoxy 2-propanol

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 375 mg/m<sup>3</sup>. Limit value 15 minutes: 568 mg/m<sup>3</sup>. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 100 ppm.

Solvent naphtha (petroleum), light aromatic

**Xylene** 

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia) ELV: 100 ppm.

ELV: 400 mg/m<sup>3</sup>.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) [ksilen] 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.

iso-butanol Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 231 ma/m3. STELV 15 minutes: 75 ppm. ELV 8 hours: 154 mg/m<sup>3</sup>. ELV 8 hours: 50 ppm.

Ethylbenzene Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 884 mg/m<sup>3</sup>. STELV 15 minutes: 200 ppm. ELV 8 hours: 442 mg/m<sup>3</sup>. ELV 8 hours: 100 ppm.

1-Methoxy 2-propanol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

STELV 15 minutes: 568 mg/m<sup>3</sup>. STELV 15 minutes: 150 ppm. ELV 8 hours: 375 mg/m<sup>3</sup>. ELV 8 hours: 100 ppm.

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Xylene Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο,

μικτά ισομερή, καθαρά] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.

TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.

Ethylbenzene Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 884 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm.

1-Methoxy 2-propanol Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³.

Solvent naphtha (petroleum), light aromatic | Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [nafta solventní]

TWA 8 hours: 200 mg/m³. STEL 15 minutes: 1000 mg/m³.

Xylene Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [xylen] Absorbed through skin.

TWA 8 hours: 200 mg/m³. TWA 8 hours: 45.33 ppm. STEL 15 minutes: 400 mg/m³. STEL 15 minutes: 90.66 ppm.

iso-butanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [butanol]

TWA 8 hours: 300 mg/m³. TWA 8 hours: 97 ppm. STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 194 ppm.

Ethylbenzene Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 200 mg/m³. TWA 8 hours: 45.33 ppm. STEL 15 minutes: 500 mg/m³. STEL 15 minutes: 113.32 ppm.

1-Methoxy 2-propanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 270 mg/m³. TWA 8 hours: 72.09 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 146.84 ppm.

Xylene Working Environment Authority (Denmark, 3/2024) [xylen, alle

**isomere]** Absorbed through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm.

iso-butanol Working Environment Authority (Denmark, 3/2024) [butanol,

alle isomere] Absorbed through skin.

CEIL: 50 ppm. CEIL: 150 mg/m³.

Ethylbenzene Working Environment Authority (Denmark, 3/2024) K. Absorbed

through skin.

TWA 8 hours: 50 ppm.
TWA 8 hours: 217 mg/m³.
STEL 15 minutes: 434 mg/m³.
STEL 15 minutes: 100 ppm.

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SECTION 8: Exposure controls/personal protection Working Environment Authority (Denmark, 3/2024) [1-methoxy-1-Methoxy 2-propanol 2-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 185 mg/m<sup>3</sup>. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. **Xylene** Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen] 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>. Occupational exposure limits, Regulation No. 293 (Estonia, iso-butanol 4/2024) TWA 8 hours: 150 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, 1-Methoxy 2-propanol 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] 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>. Ethylbenzene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. 1-Methoxy 2-propanol EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. Solvent naphtha (petroleum), light aromatic Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020) TWA 8 hours: 100 ma/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs **Xylene** (Finland, 10/2021) [Ksyleeni] Absorbed through skin. 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. iso-butanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Butanoli] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm.

STEL 15 minutes: 230 mg/m<sup>3</sup>.

Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 50 ppm.

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1-Methoxy 2-propanol

Solvent naphtha (petroleum), light aromatic

**Xylene** 

iso-butanol

Ethylbenzene

1-Methoxy 2-propanol

**Xylene** 

iso-butanol

TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 880 mg/m<sup>3</sup>.

Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin. TWA 8 hours: 100 ppm.

TWA 8 hours: 370 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m<sup>3</sup>.

Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12]

TWA 8 hours: 1000 mg/m³. Form: Vapour. Notes: Permissible

limit values (circulars)

STEL 15 minutes: 1500 mg/m<sup>3</sup>. Form: Vapour. Notes:

Permissible limit values (circulars)

Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes,

purs] Absorbed through skin.

STEL 15 minutes: 442 mg/m³. 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)

Ministry of Labor (France, 6/2024)

TWA 8 hours: 50 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 150 mg/m<sup>3</sup>. Notes: Permissible limit values

(circulars)

Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

TWA 8 hours: 88.4 mg/m<sup>3</sup>. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

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)

Ministry of Labor (France, 6/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 188 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 375 mg/m³. 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)

TRGS 900 OEL (Germany, 6/2024) [Xylol] 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.

DFG MAC-values list (Germany, 7/2023) [Xylene] 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].

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 310 mg/m<sup>3</sup>. PEAK 15 minutes: 310 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm.

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DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 310 mg/m<sup>3</sup>. PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour]. Ethylbenzene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m<sup>3</sup>. PEAK 15 minutes: 176 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. 1-Methoxy 2-propanol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 370 mg/m<sup>3</sup>. PEAK 15 minutes: 740 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 370 mg/m<sup>3</sup>. PEAK 15 minutes: 740 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [ξυλόλια (όλα τα ισομερή)] 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>. iso-butanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene values (Greece, 9/2021) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m<sup>3</sup>. 1-Methoxy 2-propanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m<sup>3</sup>. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1080 mg/m<sup>3</sup>. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol izomerek **Xylene** keveréke] 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. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through TWA 8 hours: 442 mg/m<sup>3</sup>. PEAK 15 minutes: 884 mg/m<sup>3</sup>. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm.

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SECTION 8: Exposure controls/personal protection 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through 1-Methoxy 2-propanol TWA 8 hours: 375 mg/m<sup>3</sup>. PEAK 15 minutes: 568 mg/m<sup>3</sup>. PEAK 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. **Xylene** Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Xýlen, allir ísómerar] 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. iso-butanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Bútanól, allir ísomerar nema n-bútanól] Absorbed through skin. STEL 15 minutes: 150 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. Ethylbenzene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. 1-Methoxy 2-propanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 185 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes: **Xylene** EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m<sup>3</sup>. NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure iso-butanol Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m3. NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU Ethylbenzene derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m3. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m<sup>3</sup>. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational 1-Methoxy 2-propanol Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m3. OELV 15 minutes: 150 ppm. OELV 15 minutes: 568 mg/m<sup>3</sup>. Legislative Decree No. 81/2008. Title IX. Protection from **Xylene** chemical agents, carcinogens and mutagens (Italy, 6/2020) [Xilene, isomeri misti, puro] 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>.

Ethylbenzene

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin. Limit value 8 hours: 100 ppm.

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Limit value 8 hours: 442 mg/m³.
Short Term 15 minutes: 200 ppm.
Short Term 15 minutes: 884 mg/m³.

1-Methoxy 2-propanol Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 100 ppm. Limit value 8 hours: 375 mg/m³. Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 568 mg/m³.

Xylene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Ksilols] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.

iso-butanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Butilspirti]

TWA 8 hours: 10 mg/m<sup>3</sup>.

Ethylbenzene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 442 mg/m³.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 200 ppm.
STEL 15 minutes: 884 mg/m³.

1-Methoxy 2-propanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 568 mg/m³.
TWA 8 hours: 375 mg/m³.
STEL 15 minutes: 150 ppm.

Xylene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

[ksilenas, mišrūs izomerai, grynas] Absorbed through skin.

STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³.

iso-butanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin. TWA 8 hours: 10 mg/m³.

Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 442 mg/m³.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 884 mg/m³.
STEL 15 minutes: 200 ppm.

1-Methoxy 2-propanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 190 mg/m³.
TWA 8 hours: 50 ppm.
STEL 15 minutes: 300 mg/m³.
STEL 15 minutes: 75 ppm.

Xylene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]

Absorbed through skin.
TWA 8 hours: 50 ppm.
TWA 8 hours: 221 mg/m³.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 442 mg/m³.

Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 100 ppm.

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TWA 8 hours: 442 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. Grand-Duchy Regulation 2016. Chemical agents. Annex I 1-Methoxy 2-propanol (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] 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>. Ethylbenzene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. EU OEL (Europe, 1/2022) Absorbed through skin. 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. **Xylene** Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] 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. Ministry of Social Affairs and Employment, Legal limit values Ethylbenzene (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 215 mg/m<sup>3</sup>. STEL 15 minutes: 430 mg/m<sup>3</sup>. STEL 15 minutes: 97.3 ppm. TWA 8 hours: 48.6 ppm. Ministry of Social Affairs and Employment, Legal limit values 1-Methoxy 2-propanol (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 563 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. **Xylene** FOR-2011-12-06-1358 (Norway, 12/2022) [xylen] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m<sup>3</sup>. iso-butanol FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin. CEIL: 75 mg/m<sup>3</sup>. CEIL: 25 ppm. Ethylbenzene FOR-2011-12-06-1358 (Norway, 12/2022) Carc. Absorbed through

skin.

TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m<sup>3</sup>.

1-Methoxy 2-propanol FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m<sup>3</sup>.

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Xylene

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,
8/2023) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed

through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³

iso-butanol STEL 15 minutes: 200 mg/m³.

Regulation of the Minister of

Ethylbenzene

**Xylene** 

iso-butanol

Ethylbenzene

1-Methoxy 2-propanol

1-Methoxy 2-propanol

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, 8/2023) Absorbed through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³.

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, 8/2023) Absorbed through skin.

TWA 8 hours: 200 mg/m³. STEL 15 minutes: 400 mg/m³.

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, 8/2023) Absorbed through skin.

TWA 8 hours: 180 mg/m³. STEL 15 minutes: 360 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m & p)] A4.

TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 50 ppm.

Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm.

Portuguese Institute of Quality (Portugal, 11/2014) A4.

TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.

Solvent naphtha (petroleum), light aromatic

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Solvent nafta] Absorbed through

skin.

VLA 8 hours: 100 mg/m<sup>3</sup>.

Short term 15 minutes: 200 mg/m<sup>3</sup>.

Xylene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen] Absorbed through skin.

VLA 8 hours: 221 mg/m³. VLA 8 hours: 50 ppm.

Short term 15 minutes: 442 mg/m³. Short term 15 minutes: 100 ppm.

iso-butanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)

VLA 8 hours: 100 mg/m³. VLA 8 hours: 33 ppm.

Short term 15 minutes: 200 mg/m³. Short term 15 minutes: 66 ppm.

Ethylbenzene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 442 mg/m<sup>3</sup>.

VLA 8 hours: 100 ppm.

Short term 15 minutes: 884 mg/m<sup>3</sup>.

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1-Methoxy 2-propanol

Short term 15 minutes: 200 ppm.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 375 mg/m<sup>3</sup>. VLA 8 hours: 100 ppm.

Short term 15 minutes: 568 mg/m<sup>3</sup>. Short term 15 minutes: 150 ppm.

**Xylene** 

iso-butanol

Ethylbenzene

Government regulation SR c. 355/2006 (Slovakia, 7/2024) [xylén, zmiešané izoméry] Absorbed through skin. Inhalation sensitiser.

TWA 8 hours: 221 mg/m³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m³ (xylene, mixed isomers).

STEL 15 minutes: 100 ppm (xylene, mixed isomers).

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

[butylalkoholy] Inhalation sensitiser. TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm.

1-Methoxy 2-propanol

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm.

**Xylene** 

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen] Absorbed through skin.

TWA 8 hours: 221 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.

KTV 15 minutes: 442 mg/m³ 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].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 310 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 mg/m³ 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].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin.

TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 884 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: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to 1-Methoxy 2-propanol exposure to chemical substances at work (Slovenia, 4/2024)

> Absorbed through skin. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 568 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

iso-butanol

Ethylbenzene

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SECTION 8: Exposure controls/personal protection KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. **Xylene** National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] 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>. iso-butanol National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m<sup>3</sup>. Ethylbenzene National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. National institute of occupational safety and health (Spain, 1-Methoxy 2-propanol 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. **Xylene** Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene] 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>. iso-butanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, Ethylbenzene 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, 1-Methoxy 2-propanol 11/2022) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. TWA 8 hours: 190 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. **Xylene** SUVA (Switzerland, 1/2024) [Xylol] 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>. SUVA (Switzerland, 1/2024) iso-butanol TWA 8 hours: 50 ppm.

TWA 8 hours: 150 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 150 mg/m<sup>3</sup>.

SUVA (Switzerland, 1/2024) Absorbed through skin, Ototoxicant. Ethylbenzene

> TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>.

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STEL 15 minutes: 50 ppm. STEL 15 minutes: 220 mg/m<sup>3</sup>. SUVA (Switzerland, 1/2024) 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 720 mg/m<sup>3</sup>. **Xylene** EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers] 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. EH40/2005 WELs (United Kingdom (UK), 1/2020) iso-butanol STEL 15 minutes: 231 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. TWA 8 hours: 154 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. Ethylbenzene EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 552 mg/m3. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m<sup>3</sup>. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 1-Methoxy 2-propanol through skin. STEL 15 minutes: 560 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

#### **Biological exposure indices**

| Product/ingredient name    | Exposure indices   |
|----------------------------|--|
| Xylene                     | VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.  |
| No exposure indices known. |  |
| Ethylbenzene               | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes: significant skin resorption possible  BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.  |
| Xylene                     | Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [xylene]  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. |
| Ethylbenzene               | Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)  BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.  |

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BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

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

No exposure indices known.

**Xylene** 

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

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.

Ethylbenzene

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

Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1500 mg/g creatinine, almond 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) [Xylene]

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

Ethylbenzene

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.

No exposure indices known.

Xylene

**DFG BEI-values list (Germany, 7/2023) [Xylene (all isomers)]**Notes: danger from percutaneous absorption (see p. 211 and p.

228).

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

TRGS 903 - BEI Values (Germany, 2/2024) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end

of exposure or end of shift.

Ethylbenzene

**DFG BEI-values list (Germany, 7/2023)** Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2024)

BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

1-Methoxy 2-propanol

DFG BEI-values list (Germany, 7/2023)

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2024)

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

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**Xylene** 

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

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.

Ethylbenzene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.

BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the

No exposure indices known.

Xylene

NAOSH (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.

Ethylbenzene

**NAOSH (Ireland, 1/2011)** 

BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.

BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.

No exposure indices known.

**Xylene** 

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [xylenes (all isomers)]

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.

Xylene

Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes]

BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.

Ethylbenzene

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

Xylene

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [Xylene]

OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.

Ethylbenzene

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

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**Xylene** 

Ethylbenzene

**Xylene** 

Ethylbenzene

1-Methoxy 2-propanol

OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.

#### Government regulation SR c. 355/2006 (Slovakia, 5/2024) [xylene, all isomers]

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.

#### Government regulation SR c. 355/2006 (Slovakia, 5/2024)

BLV: 799 µmol/mmol creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 7.44 µmol/mmol creatinine, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1067 mg/g creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 8.03 mg/g creatinine, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 10590 µmol/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; longterm exposure: after several work shifts.

BLV: 98.6 µmol/l, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; longterm exposure: after several work shifts.

BLV: 12 mg/l, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

#### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [xylene (all isomers)]

BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.

#### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.

#### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.

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**Xylene** 

National institute of occupational safety and health (Spain, 1/2024) [Xylenes]

VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling

time: end of shift.

Ethylbenzene

National institute of occupational safety and health (Spain, 1/2024)

VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.

No exposure indices known.

**Xylene** 

SUVA (Switzerland, 1/2024) [Xylene, all isomers]

BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.

Ethylbenzene

SUVA (Switzerland, 1/2024)

BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.

1-Methoxy 2-propanol

SUVA (Switzerland, 1/2024)

BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 221.9 μmol/l, 1-methoxypropanol-2 [in urine]. Sampling time:

immediately after exposure or after working hours.

Xylene

EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]

BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

## Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: 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

Solvent naphtha (petroleum), light aromatic

#### Result

DNEL - General population - Long term - Inhalation

0.41 mg/m³
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/m³ Effects: Local

DNEL - General population - Short term - Inhalation

640 mg/m³ <u>Effects</u>: Local

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

837.5 mg/m³ Effects: Local

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

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

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**Xylene** 

iso-butanol

Effects: Local

DNEL - General population - Short term - Inhalation

1152 mg/m³ Effects: Systemic

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

1286.4 mg/m³ Effects: Systemic

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

5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³ 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 <u>Effects</u>: Systemic

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

221 mg/m³ Effects: Local

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

221 mg/m³
Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Systemic

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

442 mg/m³ Effects: Local

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

442 mg/m³
<u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

55 mg/m³ Effects: Local

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

310 mg/m³ Effects: Local

Ethylbenzene DMEL - Workers - Long term - Inhalation

442 mg/m³ Effects: Local

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DMEL - Workers - Short term - Inhalation

884 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

1.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

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

Effects: Systemic

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

77 mg/m<sup>3</sup>

Effects: Systemic

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

180 mg/kg bw/day Effects: Systemic

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

293 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m³ Effects: Systemic

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

78 mg/kg bw/day Effects: Systemic

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

183 mg/kg bw/day Effects: Systemic

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

369 mg/m³ Effects: Systemic

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

553.5 mg/m³ Effects: Local

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

553.5 mg/m³ Effects: Systemic

#### **PNECs**

Not available.

#### 8.2 Exposure controls

1-Methoxy 2-propanol

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**

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#### 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. 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): 4H / Silver Shield® gloves.

#### **Body protection**

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

Odour threshold : Not available.

Melting point/freezing point : Not available.

boiling range

Initial boiling point and

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## SECTION 9: Physical and chemical properties

| Ingredient name      | °C     | °F    | Method   |
|----------------------|--------|-------|----------|
| iso-butanol          | 108    | 226.4 | OECD 103 |
| 1-Methoxy 2-propanol | 120.17 | 248.3 | OECD 103 |

**Flammability** : Not available.

Lower and upper explosion : Lower: 0.8% (xylene)

Upper: 7.6% (Solvent naphtha (petroleum), light arom.) limit

: Closed cup: 25°C (77°F) Flash point

**Auto-ignition temperature** 

| Ingredient name                             | °C         | °F         | Method |
|---|------------|------------|--------|
| 1-Methoxy 2-propanol                        | 270        | 518        |        |
| Solvent naphtha (petroleum), light aromatic | 280 to 470 | 536 to 878 |        |

: Not available. **Decomposition temperature** pН Not applicable.

**Viscosity** Kinematic (40°C): <20.5 mm<sup>2</sup>/s

Solubility(ies)

Not available.

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

water

Vapour pressure

|                 | Va        | Vapour Pressure at 20°C |                | Va    | pour pres | sure at 50°C |
|-----------------|-----------|-------------------------|----------------|-------|-----------|--------------|
| Ingredient name | mm Hg     | kPa                     | Method         | mm Hg | kPa       | Method       |
| iso-butanol     | <12.00102 | <1.6                    | DIN EN 13016-2 |       |           |              |
| Ethylbenzene    | 9.30076   | 1.2                     |                |       |           |              |

**Relative density** : Not available. **Density** : 0.9 g/cm<sup>3</sup> : Not available. Vapour density

**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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## **SECTION 10: Stability and reactivity**

10.5 Incompatible materials : Reactive or incom

: 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 Result

Solvent naphtha (petroleum), light aromatic Rat - Oral - LD50

8400 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration -

Other changes

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]

iso-butanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

19200 mg/m³ [4 hours]

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

Rabbit - Dermal - LD50

15400 mg/kg

Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

1-Methoxy 2-propanol Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

<u>Toxic effects</u>: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or

Respiration - Dyspnea

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

**Acute toxicity estimates** 

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## **SECTION 11: Toxicological information**

| Product/ingredient name                     | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| FEKNOSOLV 9506                              | N/A              | 3832.8            | N/A                            | 31.4                              | N/A  |
| Solvent naphtha (petroleum), light aromatic | 8400             | N/A               | N/A                            | N/A                               | N/A  |
| Xylene                                      | 4300             | 1100              | N/A                            | 11                                | N/A  |
| iso-butanol                                 | 2460             | 3400              | N/A                            | N/A                               | N/A  |
| Ethylbenzene                                | 3500             | 15400             | N/A                            | 11                                | 29000  |
| 1-Methoxy 2-propanol                        | 6600             | 13000             | N/A                            | N/A                               | N/A  |

Result

**Skin corrosion/irritation** 

Product/ingredient name

Kylene Rat - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 8 hours <u>Amount/concentration applied</u>: 60 uL

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Rabbit - Skin - Moderate irritant Amount/concentration applied: 100 %

Ethylbenzene Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 15 mg

1-Methoxy 2-propanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

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

Serious eye damage/eye irritation

Product/ingredient name Result

Solvent naphtha (petroleum), light aromatic Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 100 uL

Xylene Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 5 mg

Ethylbenzene Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

1-Methoxy 2-propanol Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

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

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## **SECTION 11: Toxicological information**

#### 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 Result

Solvent naphtha (petroleum), light aromatic STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

STOT SE 3, H335 (Respiratory tract irritation) **Xylene** STOT SE 3, H335 (Respiratory tract irritation) iso-butanol

STOT SE 3, H336 (Narcotic effects)

STOT SE 3, H336 (Narcotic effects) 1-Methoxy 2-propanol

Specific target organ toxicity (repeated exposure)

**Product/ingredient name** Result

**Xylene** STOT RE 2, H373 (oral, inhalation)

Ethylbenzene STOT RE 2, H373 (hearing organs) (oral, inhalation)

**Aspiration hazard** 

Product/ingredient name Result

Solvent naphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 **Xylene** ASPIRATION HAZARD - Category 1 Ethylbenzene ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed

and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

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## **SECTION 11: Toxicological information**

**Eye contact**: Adverse symptoms may include the following:

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains nausea or vomiting

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

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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

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

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

Result

Solvent naphtha (petroleum), light aromatic Acute - LC50

Fish

9.2 mg/l [96 hours]

Acute - EC50 Daphnia

3.2 mg/l [48 hours]

iso-butanol Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

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## **SECTION 12: Ecological information**

Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

#### Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

#### 12.2 Persistence and degradability

Product/ingredient name Result

iso-butanol 74% [28 days] - Readily

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

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

#### 12.3 Bioaccumulative potential

| Product/ingredient name      | LogPow        | BCF         | Potential |
|------------------------------|---------------|-------------|-----------|
| Solvent naphtha (petroleum), | -             | 10 to 2500  | High      |
| light aromatic  Xylene       | 3.12          | 8.1 to 25.9 | Low       |
| iso-butanol                  | 1             | -           | Low       |
| Ethylbenzene                 | 3.6           | -           | Low       |
| 1-Methoxy 2-propanol         | <b> &lt;1</b> | -           | Low       |

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

| Product/ingredient name | logKoc | Koc     |
|-------------------------|--------|---------|
| iso-butanol             | 1.08   | 12.0246 |
| Ethylbenzene            | 2.23   | 170.406 |
| 1-Methoxy 2-propanol    | 1.02   | 10.447  |

#### Results of PMT and vPvM assessment

| Product/ingredient name                     | PMT | P  | M  | T  | vPvM | vP | vM |
|---|-----|----|----|----|------|----|----|
| Solvent naphtha (petroleum), light aromatic | No  | No | No | No | No   | No | No |
| Xylene                                      | No  | No | No | No | No   | No | No |
| iso-butanol                                 | No  | No | No | No | No   | No | No |
| Ethylbenzene                                | No  | No | No | No | No   | No | No |
| 1-Methoxy 2-propanol                        | No  | No | No | No | No   | No | 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 | Р  | В  | Т  | vPvB | vP | vB |
|---|-----|----|----|----|------|----|----|
| Solvent naphtha (petroleum), light aromatic | No  | No | No | No | No   | No | No |
| Xylene                                      | No  | No | No | No | No   | No | No |
| iso-butanol                                 | No  | No | No | No | No   | No | No |
| Ethylbenzene                                | No  | No | No | No | No   | No | No |
| 1-Methoxy 2-propanol                        | No  | No | No | No | No   | No | No |

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| Product/ingredient name                     | PBT | P  | В  | T  | vPvB | vP | vB |  |
|---|-----|----|----|----|------|----|----|--|
| Solvent naphtha (petroleum), light aromatic | No  | No | No | No | No   | No | No |  |
| Xylene                                      | No  | No | No | No | No   | No | No |  |
| iso-butanol                                 | No  | No | No | No | No   | No | No |  |
| Ethylbenzene                                | No  | No | No | No | No   | No | No |  |
| 1-Methoxy 2-propanol                        | 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.

**European waste** catalogue (EWC)

: 080111\*

**Packaging** 

**Methods of disposal** 

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

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

|                                 | ADR/RID                   | ADN                       | IMDG                      | IATA                      |
|---------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 14.1 UN number or ID number     | UN1263                    | UN1263                    | UN1263                    | UN1263                    |
| 14.2 UN proper shipping name    | PAINT RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL |
| 14.3 Transport hazard class(es) | 3                         | 3                         | 3                         | 3                         |

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## **SECTION 14: Transport information**

| 14.4 Packing group               | III  | III  | III | III  |
|----------------------------------|------|------|-----|--|
| 14.5<br>Environmental<br>hazards | 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  $\leq 5$  L or  $\leq 5$  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.

: 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.

## Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | %   | Designation [Usage] |
|-------------------------|-----|---------------------|
| TEKNOSOLV 9506          | ≥90 | 3                   |

Labelling :

**Other EU regulations** 

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

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## SECTION 15: Regulatory information

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category

P<sub>5</sub>c E2

#### **National regulations**

**Austria** 

**VbF** class : Category 3 : Permitted. Limitation of the use of organic solvents

**Belgium** 

**Czech Republic** 

Storage code : 11

**Denmark** 

**Product registration** 

number

: 4149364

: II-1 Fire class

Executive Order No. 1795/2015

| Ingredient name | Annex I Section A | Annex I Section B |
|-----------------|-------------------|-------------------|
| Ethylbenzene    | Listed            | -                 |

**MAL-code** 

: 5-3

**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: 5-3

**Application:** When spraying in new\* booths if the operator is outside the spray zone. 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 using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

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. 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 coveralls must be worn.

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

- Air-supplied full mask, arm protectors and apron must be worn.

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## **SECTION 15: Regulatory information**

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, coveralls 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

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, : Solvent naphtha (petroleum), light aromatic RG 84

**Articles L 461-1 to L 461-7** Xylene RG 4bis, RG 84

iso-butanol RG 84 Ethylbenzene RG 84 1-Methoxy 2-propanol 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        | %   |
|----------------|--------------------|-----|
| 5.2.5          | Organic substances | 100 |
| 5.2.5 [I]      | Organic substances | 65  |

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

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

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| Ingredient name                          | Carcinogen | Mutagen | Reproductive toxicity - Fertility | Reproductive toxicity - Development | Harmful via breastfeeding |
|--|------------|---------|-----------------------------------|-------------------------------------|---------------------------|
| Solvent naphtha (petroleum), light arom. | Listed     | Listed  | -                                 | -                                   | -                         |
| xylene                                   | -          | -       | -                                 | Development 2                       | -                         |

**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)

**Switzerland** 

VOC content : VOC (w/w): 100%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

: 2a

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]

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### **SECTION 16: Other information**

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Dam. 1, H318        | Calculation method    |
| STOT SE 3, H335         | Calculation method    |
| STOT SE 3, H336         | Calculation method    |
| STOT RE 2, H373         | Calculation method    |
| Asp. Tox. 1, H304       | Calculation method    |
| Aquatic Chronic 2, H411 | Calculation method    |

#### Full text of abbreviated H statements

| H225   | Highly flammable liquid and vapour.                                |
|--------|--|
| H226   | Flammable liquid and vapour.                                       |
| H304   | May be fatal if swallowed and enters airways.                      |
| H312   | Harmful in contact with skin.                                      |
| H315   | Causes skin irritation.  |
| 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.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H411   | Toxic to aquatic life with long lasting effects.                   |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |
|        |  |

#### Full text of classifications [CLP/GHS]

| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
|-------------------|---|
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| 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. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| 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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#### **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.

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