## SAFETY DATA SHEET



OWEDUR 4193-50 - FARBLOS-INCOLORE-COLOURLESS

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

#### 1.1 Product identifier

Product name : OWEDUR 4193-50 - FARBLOS-INCOLORE-COLOURLESS

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

Product use : Paint.

### 1.3 Details of the supplier of the safety data sheet

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

e-mail address of person : 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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

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** : H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

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

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#### **Precautionary statements**

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## **SECTION 2: Hazards identification**

Prevention : P280 - Wear protective

: P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

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

sources. No smoking.

P260 - Do not breathe vapour.

Response : P314 - Get medical advice/attention if you feel unwell.

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 : Contains: acetone; n-Butyl acetate; Toluene and EO bis(benztriazolyl)

phenylpropionat

Supplemental label

elements

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

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. Limits, M-factors and ATEs	Туре
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥10 - <25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

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#### SECTION 3: Composition/information on ingredients REACH #: ≤5 Flam. Lig. 3, H226 [2] 2-Methoxy-1-methylethyl acetate 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 Ethylbenzene REACH #: ≤3 Flam. Lig. 2, H225 ATE [Inhalation] [1] [2] 01-2119489370-35 Acute Tox. 4, H332 (vapours)] = 11 mg/ STOT RE 2, H373 EC: 202-849-4 CAS: 100-41-4 (hearing organs) (oral, Index: 601-023-00-4 inhalation) Asp. Tox. 1, H304 EO bis(benztriazolyl) REACH #: ≤0.3 Skin Sens. 1A, H317 [1] phenylpropionat 01-0000015075-76 Aquatic Chronic 2, H411 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 See Section 16 for the full text of the H statements declared above.

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

## **Type**

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

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

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

### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or 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.

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

#### Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### **Over-exposure signs/symptoms**

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

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

: No specific treatment. **Specific treatments** 

## 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 : Highly 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.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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## SECTION 5: Firefighting measures

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. 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. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

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

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

## Seveso Directive - Reporting thresholds

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

#### 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
acetone	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 500 ppm 8 hours.
	TWA: 1200 mg/m <sup>3</sup> 8 hours.
	PEAK: 2000 ppm, 4 times per shift, 15 minutes.
	PEAK: 4800 mg/m³, 4 times per shift, 15 minutes.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m³, 4 times per shift, 15 minutes.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m³, 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m³ 8 hours.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.

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SECTION 8: Exposure controls/personal protection CEIL: 550 mg/m<sup>3</sup>, 8 times per shift, 5 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed Ethylbenzene through skin. TWA: 100 ppm 8 hours. TWA: 440 mg/m<sup>3</sup> 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes. CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes. acetone Limit values (Belgium, 5/2021). TWA: 246 ppm 8 hours. TWA: 594 mg/m<sup>3</sup> 8 hours. STEL: 492 ppm 15 minutes. STEL: 1187 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Limit values (Belgium, 5/2021). Absorbed through skin. Toluene TWA: 20 ppm 8 hours. TWA: 77 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. Limit values (Belgium, 5/2021). [Xylene] Absorbed through **Xylene** skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. 2-Methoxy-1-methylethyl acetate Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. Ethylbenzene TWA: 20 ppm 8 hours. TWA: 87 mg/m<sup>3</sup> 8 hours. STEL: 125 ppm 15 minutes. STEL: 551 mg/m<sup>3</sup> 15 minutes. acetone Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 600 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 1400 mg/m<sup>3</sup> 15 minutes. Ministry of Labour and Social Policy and the Ministry of n-Butyl acetate Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 241 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 723 mg/m<sup>3</sup> 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Toluene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. **Xylene** Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin.

Limit value 8 hours: 221 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 442 mg/m<sup>3</sup> 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed

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2-Methoxy-1-methylethyl acetate

through skin. Limit value 8 hours: 275 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 550 mg/m<sup>3</sup> 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of Ethylbenzene Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 545 mg/m<sup>3</sup> 15 minutes. Ministry of Economy, Labour and Entrepreneurship ELV/ acetone STELV (Croatia, 1/2021). ELV: 1210 mg/m<sup>3</sup> 8 hours. ELV: 500 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. Toluene Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m<sup>3</sup> 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. **Xylene** Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m<sup>3</sup> 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ 2-Methoxy-1-methylethyl acetate STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m3 8 hours. ELV: 50 ppm 8 hours. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m3 8 hours. ELV: 100 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed acetone through skin. TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed Toluene through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. **Xylene** Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes.

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STEL: 442 mg/m<sup>3</sup> 15 minutes.

TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. Ethylbenzene Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. acetone Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 800 mg/m<sup>3</sup> 8 hours. STEL: 1500 mg/m<sup>3</sup> 15 minutes. STEL: 621 ppm 15 minutes. TWA: 331.2 ppm 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 10/2022). TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech Toluene Republic, 10/2022). Absorbed through skin. TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50.112 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100.224 ppm 15 minutes. **Xylene** Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes.

2-Methoxy-1-methylethyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.

> TWA: 270 mg/m<sup>3</sup> 8 hours. TWA: 49.14 ppm 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100.1 ppm 15 minutes.

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

Republic, 10/2022). Absorbed through skin.

TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m<sup>3</sup> 15 minutes. STEL: 113.5 ppm 15 minutes.

acetone Working Environment Authority (Denmark, 6/2022).

TWA: 250 ppm 8 hours. TWA: 600 mg/m<sup>3</sup> 8 hours. STEL: 1200 mg/m<sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes.

n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl

> acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

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Toluene Working Environment Authority (Denmark, 6/2022). Absorbed

through skin.

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TWA: 25 ppm 8 hours. TWA: 94 mg/m<sup>3</sup> 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. **Xylene** Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 109 mg/m<sup>3</sup> 8 hours. STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). 2-Methoxy-1-methylethyl acetate [2-Methoxy-1-methylethyl acetate] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene Working Environment Authority (Denmark, 6/2022). Absorbed through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m<sup>3</sup> 8 hours. STEL: 434 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, acetone 12/2022). TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. **Xylene** Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m<sup>3</sup> 15 minutes. TWA: 200 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative acetone occupational exposure limit values TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative

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occupational exposure limit values

STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes.

TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Toluene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] **Xylene** Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. acetone Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 500 ppm 8 hours. TWA: 1200 mg/m<sup>3</sup> 8 hours. STEL: 630 ppm 15 minutes. STEL: 1500 mg/m<sup>3</sup> 15 minutes. Institute of Occupational Health, Ministry of Social Affairs n-Butyl acetate (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m3 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Toluene (Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours. TWA: 81 mg/m3 8 hours. STEL: 100 ppm 15 minutes. STEL: 380 mg/m<sup>3</sup> 15 minutes. **Xylene** Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m<sup>3</sup> 15 minutes. TWA: 220 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Institute of Occupational Health, Ministry of Social Affairs 2-Methoxy-1-methylethyl acetate

Ethylbenzene

(Finland, 10/2021). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.

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TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 880 mg/m<sup>3</sup> 15 minutes.

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Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. STEL: 2420 mg/m<sup>3</sup> 15 minutes. STEL: 1000 ppm 15 minutes. Ministry of Labor (France, 10/2022). Notes: Binding regulatory n-Butyl acetate limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Toluene Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 76.8 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. **Xylene** Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. 2-Methoxy-1-methylethyl acetate Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ethylbenzene Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 88.4 mg/m<sup>3</sup> 8 hours. STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TRGS 900 OEL (Germany, 6/2022). acetone TWA: 1200 mg/m<sup>3</sup> 8 hours. PEAK: 2400 mg/m<sup>3</sup> 15 minutes. TWA: 500 ppm 8 hours. PEAK: 1000 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 500 ppm 8 hours. PEAK: 1000 ppm, 4 times per shift, 15 minutes. TWA: 1200 mg/m<sup>3</sup> 8 hours. PEAK: 2400 mg/m³, 4 times per shift, 15 minutes. DFG MAC-values list (Germany, 7/2022). n-Butyl acetate TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m<sup>3</sup> 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m<sup>3</sup> 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Toluene TWA: 190 mg/m<sup>3</sup> 8 hours.

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PEAK: 380 mg/m<sup>3</sup> 15 minutes.

TWA: 50 ppm 8 hours.

SECTION 8: Exposure controls/personal protection PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 190 mg/m<sup>3</sup> 8 hours. PEAK: 380 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. **Xylene** TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through TWA: 220 mg/m<sup>3</sup> 8 hours. PEAK: 440 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m<sup>3</sup> 8 hours. PEAK: 440 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. 2-Methoxy-1-methylethyl acetate TRGS 900 OEL (Germany, 6/2022). TWA: 270 mg/m<sup>3</sup> 8 hours. PEAK: 270 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 50 ppm 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 mg/m<sup>3</sup> 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Ethylbenzene TWA: 88 mg/m<sup>3</sup> 8 hours. PEAK: 176 mg/m<sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. TWA: 88 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. Soybean oil, epoxidized TRGS 900 OEL (Germany, 6/2022). [triglycerides] PEAK: 20 mg/m<sup>3</sup> 15 minutes. Form: Respirable fraction TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction Presidential Decree 307/1986: Occupational exposure limit acetone values (Greece, 9/2021). TWA: 1780 mg/m<sup>3</sup> 8 hours. STEL: 3560 mg/m<sup>3</sup> 15 minutes. Presidential Decree 307/1986: Occupational exposure limit n-Butyl acetate values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. Presidential Decree 307/1986: Occupational exposure limit **Xylene** values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin.

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TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours.

STEL: 150 ppm 15 minutes. STEL: 650 mg/m<sup>3</sup> 15 minutes. 2-Methoxy-1-methylethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m3 15 minutes. acetone 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. n-Butyl acetate Inhalation sensitiser. TWA: 241 mg/m<sup>3</sup> 8 hours. PEAK: 723 mg/m<sup>3</sup> 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m<sup>3</sup> 8 hours. PEAK: 384 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. PEAK: 442 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. 2-Methoxy-1-methylethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 275 mg/m<sup>3</sup> 8 hours. PEAK: 550 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m<sup>3</sup> 8 hours. PEAK: 884 mg/m³ 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). acetone TWA: 600 mg/m<sup>3</sup> 8 hours. TWA: 250 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [butyl acetate, all isomers] TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Toluene Absorbed through skin. STEL: 188 mg/m3 15 minutes. STEL: 50 ppm 15 minutes. TWA: 94 mg/m<sup>3</sup> 8 hours. TWA: 25 ppm 8 hours. **Xylene** Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin.

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STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m<sup>3</sup> 8 hours. TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 2-Methoxy-1-methylethyl acetate Absorbed through skin. STEL: 550 mg/m3 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ethylbenzene Absorbed through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational acetone Exposure Limit Values OELV-8hr: 500 ppm 8 hours. OELV-8hr: 1210 mg/m<sup>3</sup> 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate **Exposure Limit Values** OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m<sup>3</sup> 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m<sup>3</sup> 15 minutes. Toluene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 192 mg/m3 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m<sup>3</sup> 15 minutes. **Xylene** NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit **Values** OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU 2-Methoxy-1-methylethyl acetate derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m<sup>3</sup> 15 minutes. Ethylbenzene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours. OELV-8hr: 442 mg/m3 8 hours. OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m<sup>3</sup> 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from acetone chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 500 ppm 8 hours. 8 hours: 1210 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Legislative Decree No. 819/2008. Title IX. Protection from Toluene chemical agents, carcinogens and mutagens (Italy, 6/2020).

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Absorbed through skin.

8 hours: 50 ppm 8 hours. 8 hours: 192 mg/m<sup>3</sup> 8 hours. **Xylene** Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). [Xylenes, mixed isomers, pure] Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m<sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m3 15 minutes. 2-Methoxy-1-methylethyl acetate Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m<sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m3 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from Ethylbenzene chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m<sup>3</sup> 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m3 15 minutes. acetone Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). n-Butyl acetate TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 mg/m<sup>3</sup> 8 hours. STEL: 150 mg/m³ 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). **Xylene** [Xylenes] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 2-Methoxy-1-methylethyl acetate Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Ethylbenzene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. acetone Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. STEL: 2420 mg/m<sup>3</sup> 15 minutes.

STEL: 1000 ppm 15 minutes.

n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

> TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes.

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STEL: 150 ppm 15 minutes.
Toluene Lithuanian Hygiene Standa

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

**Absorbed through skin.** TWA: 192 mg/m<sup>3</sup> 8 hours.

TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Xylene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin.

STEL: 442 mg/m<sup>3</sup> 15 minutes.

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

2-Methoxy-1-methylethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

Absorbed through skin.
TWA: 250 mg/m³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 400 mg/m³ 15 minutes.
STEL: 75 ppm 15 minutes.

Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

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

(Luxembourg, 3/2021). TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.

n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021).
STEL: 150 ppm 15 minutes.
STEL: 723 mg/m³ 15 minutes.
TWA: 50 ppm 8 hours.
TWA: 241 mg/m³ 8 hours.

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

(Luxembourg, 3/2021). Absorbed through skin.

STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.

Xylene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure]

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

2-Methoxy-1-methylethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin. TWA: 50 ppm 8 hours.

TWA: 50 ppm 8 nours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

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

(Luxembourg, 3/2021). Absorbed through skin.

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

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EU OEL (Europe, 1/2022). Notes: list of indicative acetone occupational exposure limit values TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Toluene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] **Xylene** Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Ethylbenzene of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. acetone Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). STEL,15-min: 2420 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 1210 mg/m<sup>3</sup> 8 hours. OEL, 8-h TWA: 500 ppm 8 hours. STEL,15-min: 1000 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m<sup>3</sup> 8 hours. STEL,15-min: 723 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL. 8-h TWA: 50 ppm 8 hours. Toluene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m<sup>3</sup> 8 hours. STEL,15-min: 384 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 ppm 8 hours. **Xylene** Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m<sup>3</sup> 8 hours. STEL,15-min: 442 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values 2-Methoxy-1-methylethyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 550 mg/m3 8 hours.

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OEL, 8-h TWA: 100 ppm 8 hours.

SECTION 8: Exposure controls/personal protection Ministry of Social Affairs and Employment, Legal limit values Ethylbenzene (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m3 8 hours. STEL,15-min: 430 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative acetone limit value TWA: 125 ppm 8 hours. TWA: 295 mg/m<sup>3</sup> 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). n-Butyl acetate STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Toluene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 94 mg/m<sup>3</sup> 8 hours. **Xylene** FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through Ethylbenzene skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m<sup>3</sup> 8 hours. Regulation of the Minister of Family, Labor and Social Policy acetone of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 600 mg/m<sup>3</sup> 8 hours. STEL: 1800 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 720 mg/m<sup>3</sup> 15 minutes. Toluene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

2/2021). Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy

2-Methoxy-1-methylethyl acetate

**Xylene** 

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of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 260 mg/m³ 8 hours. STEL: 520 mg/m³ 15 minutes.

Ethylbenzene

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

2/2021). Absorbed through skin.

TWA: 200 mg/m<sup>3</sup> 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes.

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

TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.

n-Butyl acetate Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

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

through skin.

TWA: 20 ppm 8 hours.

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

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

2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

of indicative occupational exposure limit values

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

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

TWA: 20 ppm 8 hours.

acetone HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). VLA: 1210 mg/m³ 8 hours. VLA: 500 ppm 8 hours.

n-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021).
VLA: 241 mg/m³ 8 hours.
VLA: 50 ppm 8 hours.

Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

Toluene HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours.

VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

Xylene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin.

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

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

2-Methoxy-1-methylethyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

VLA: 275 mg/m<sup>3</sup> 8 hours. VLA: 50 ppm 8 hours.

Short term: 550 mg/m<sup>3</sup> 15 minutes. Short term: 100 ppm 15 minutes.

Ethylbenzene HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). Absorbed through skin.

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

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VLA: 100 ppm 8 hours. Short term: 884 mg/m<sup>3</sup> 15 minutes. Short term: 200 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). acetone TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. Government regulation SR c. 355/2006 (Slovakia, 9/2020). n-Butyl acetate [Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m<sup>3</sup>, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Toluene Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). **Xylene** [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m³, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m³, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. 2-Methoxy-1-methylethyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Ethylbenzene Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. acetone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 1210 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. KTV: 1000 ppm, 4 times per shift, 15 minutes. KTV: 2420 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to n-Butyl acetate exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Toluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 384 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. **Xylene** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

2-Methoxy-1-methylethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

KTV: 442 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.

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Absorbed through skin. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 550 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to Ethylbenzene exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m³, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. National institute of occupational safety and health (Spain, acetone 4/2022). TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. National institute of occupational safety and health (Spain, n-Butyl acetate 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Toluene National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, **Xylene** 4/2022). [Xylene, mixture of isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, 2-Methoxy-1-methylethyl acetate 4/2022). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 15 minutes. Ethylbenzene National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, acetone 9/2021). TWA: 250 ppm 8 hours. TWA: 600 mg/m<sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 1200 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Toluene Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes.

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STEL: 384 mg/m<sup>3</sup> 15 minutes.

**Xylene** Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. 2-Methoxy-1-methylethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 15 minutes. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. SUVA (Switzerland, 1/2023). acetone TWA: 500 ppm 8 hours. TWA: 1200 mg/m<sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m<sup>3</sup> 15 minutes. Toluene SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m<sup>3</sup> 15 minutes. **Xylene** SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m3 15 minutes. SUVA (Switzerland, 1/2023). 2-Methoxy-1-methylethyl acetate TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 275 mg/m<sup>3</sup> 15 minutes. Ethylbenzene SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 220 mg/m³ 15 minutes. Soybean oil, epoxidized SUVA (Switzerland, 1/2023). [triglycerides] STEL: 20 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction EH40/2005 WELs (United Kingdom (UK), 1/2020). acetone STEL: 3620 mg/m<sup>3</sup> 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). n-Butyl acetate STEL: 966 mg/m3 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours.

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through skin.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

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Toluene

<b>.</b>	
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.

## **Biological exposure indices**

Product/ingredient name	Exposure indices
Toluene	VGU BEI (Austria, 9/2020)  BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year.  BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year.  BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year.  BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year.  BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year.  BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling
Xylene	time: one year.  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.	one year.
acetone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021)  BLV: 80 mg/l, acetone [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021)

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Ethylbenzene

acetone

Toluene

**Xylene** 

Ethylbenzene

No exposure indices known.

BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.

# Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible

BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.

## Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

BEI: 20 mg/g creatinine, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 39 mmol/mol creatinine, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 20 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

## Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 10.85 μmol/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

## Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene]

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

BEI: 14.13  $\mu$ mol/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.

## Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.

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.

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Toluene

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

Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

**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.

Toluene

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

BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.

**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.

acetone

#### DFG BEI-values list (Germany, 7/2022)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

### **TRGS 903 - BEI Values (Germany, 2/2022)**

BEI: 80 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

Toluene

## DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.

BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or

#### TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time:

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end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.

**Xylene** 

DFG BEI-values list (Germany, 7/2022) [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, 2/2022) [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, 7/2022) 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, 2/2022)

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

No exposure indices known.

acetone

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

BEI: 1380 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.

BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the shift.

Toluene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

Xylene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [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, 12/2022)

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 shift.

No exposure indices known.

acetone

NAOSH (Ireland, 1/2011)

BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

Toluene

NAOSH (Ireland, 1/2011)

BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

**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

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Ethylbenzene

No exposure indices known.

Toluene

No exposure indices known.

acetone

Toluene

**Xylene** 

Ethylbenzene

acetone

Toluene

**Xylene** 

ceases.

### 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.

#### Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018)

BEI: 0.05 mg/l, toluene [in blood].

BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

### Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

#### Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of

BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.

### 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.

#### 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.

### HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

## HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.

### HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene]

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

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Ethylbenzene

acetone

Toluene

Xylene

Ethylbenzene

## HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

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

#### Government regulation SR c. 355/2006 (Slovakia, 9/2020)

BLV: 103.9 µmol/mmol creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 53.36 mg/g creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1378 µmol/l, acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of exposure or work shift.

#### Government regulation SR c. 355/2006 (Slovakia, 9/2020)

BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.

## Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers]

BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

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

#### Government regulation SR c. 355/2006 (Slovakia, 9/2020)

BLV: 799 µmol/mmol creatinine, 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, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

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BLV: 1067 mg/g creatinine, 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, 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  $\mu$ mol/l, 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: 98.6 µmol/l, 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, 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: 12 mg/l, 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, 5/2021)

BAT: 80 mg/l, acetone [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, 5/2021)

BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.

BAT: 75 μg/l, toluene [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, 5/2021) [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, 5/2021)

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

## National institute of occupational safety and health (Spain, 4/2022)

VLB: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

## National institute of occupational safety and health (Spain, 4/2022)

VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.

## National institute of occupational safety and health (Spain, 4/2022) [Xylenes]

VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

## National institute of occupational safety and health (Spain, 4/2022)

VLB: 700 mg/g creatinine, sum of mandelic acid and acid and

acetone

Toluene

**Xylene** 

Ethylbenzene

acetone

Toluene

**Xylene** 

Ethylbenzene

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No exposure indices known.

acetone

Toluene

**Xylene** 

Ethylbenzene

**Xylene** 

Recommended monitoring procedures

phenylglyoxylic acid [in urine]. Sampling time: end of workweek.

#### SUVA (Switzerland, 1/2023)

BEI: 50 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 0.86 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

#### SUVA (Switzerland, 1/2023)

BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 75 μg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.

### SUVA (Switzerland, 1/2023) [Xylene, all isomers]

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

### SUVA (Switzerland, 1/2023)

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

## EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers]

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

: 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	Туре	Exposure	Value	Population	Effects
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	200 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic

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• • • • • • • • • • • • • • • • • • •		<b>-</b>			
	DNEL	Short term	2420 mg/	Workers	Local
n Dutid acatata	חארו	Inhalation	m <sup>3</sup>	Camaral	Curata maia
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
	DNEI	Long form Oral	bw/day	population General	Systemia
	DNEL	Long term Oral	2 mg/kg bw/day	population	Systemic
	DNEL	Short term Dermal	,	General	Systemis
	DINEL	Short term Dermai	6 mg/kg bw/day	population	Systemic
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DINEL	Short term Dermai	bw/day	VVOIKEIS	Systernic
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
	DINLL	Inhalation	33.7 mg/m	population	Local
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
	DIVLE	Inhalation	ooo mg/m	population	Local
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
	D. 122	Inhalation	ooo mg/m	population	C you con mo
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
		Inhalation	3.		
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			•
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	48 mg/m³	Workers	Systemic
		Inhalation			
Toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	56.5 mg/m <sup>3</sup>		Local
		Inhalation	,	population	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic
	DATE	Inhalation	400	population	1 1
	DNEL	Long term	192 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation	100 ma/m³	Morkoro	Cuatamia
	DINEL	Long term Inhalation	192 mg/m³	vvoikeis	Systemic
	DNEL	Long term Dermal	226 ma/ka	General	Systemic
	DINEL	Long term Dermai	226 mg/kg bw/day	population	Systemic
	DNEL	Short term	226 mg/m <sup>3</sup>	General	Local
	DINCL	Inhalation		population	_50di
	DNEL	Short term	226 mg/m <sup>3</sup>	General	Systemic
	J. 1LL	Inhalation	9/!!!	population	- , 5.5.7.110
	DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
		2011101	bw/day		, = = = = = =
	DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Local
		Inhalation	<b>J</b>		
	DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	J.		,
Xylene	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
		Inhalation	_	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation	-	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	<b>5.</b>	l	kg bw/day	population	
	DNEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
	D	Inhalation	405 "	population	O and the second
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	

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	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term	442 mg/m³	Workers	Local
	DNEL	Inhalation Short term	442 mg/m³	Workers	Systemic
2-Methoxy-1-methylethyl acetate	DNEL	Inhalation Long term	33 mg/m³	General	Local
	DNEL	Inhalation Long term	33 mg/m³	population General	Systemic
		Inhalation	_	population	
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
DUE 0					

## **PNECs**

No PNECs available

### 8.2 Exposure controls

Appropriate engineering controls

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

### **Individual protection measures**

**Hygiene measures** 

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

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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**Skin protection** 

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#### 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 : Colourless.

Odour : Slight

Odour threshold : Not available.

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

.

Ingredient name	°C	°F	Method
acetone	56.05	132.9	
Toluene	110.6	231.1	

Flammability : Not available.

Lower and upper explosion : Lower: 0.8% (xylene)
limit : Upper: 13% (acetone)

Flash point : Closed cup: -19°C (-2.2°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
n-Butyl acetate	415	779	EU A.15

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## SECTION 9: Physical and chemical properties

**Decomposition temperature** 

: Not available.

pН **Viscosity**  Not applicable.

Solubility(ies)

Not available.

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Var	oour pressui	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
acetone	180.01463	24				
Toluene	23.17	3.1				

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

**Particle characteristics** 

Median particle size : Not applicable.

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

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

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
•	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-Methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-

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acetate				
	LD50 Oral	Rat	8532 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

# Conclusion/Summary Acute toxicity estimates

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

Route	ATE value	
	13014.46 mg/kg 104.66 mg/l	

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
		1	l		

**Conclusion/Summary** 

: Causes skin irritation.

**Sensitisation** 

**Conclusion/Summary** 

: May cause an allergic skin reaction.

**Mutagenicity** 

**Conclusion/Summary** 

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

**Carcinogenicity** 

**Conclusion/Summary** 

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

Reproductive toxicity
Conclusion/Summary

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

**Teratogenicity** 

**Conclusion/Summary** : Suspected of damaging the unborn child.

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

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## **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
acetone	Category 3	-	Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation
n-Butyl acetate	Category 3	-	
Toluene	Category 3	-	
Xylene	Category 3	-	

## Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

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

**Information on likely routes**: Not available.

of exposure

Potential acute health effects

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

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

dizziness.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction. : Can cause central nervous system (CNS) depression. Ingestion

## Symptoms related to the physical, chemical and toxicological characteristics

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

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

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

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

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

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## **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

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

: Not available.

**General** 

: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels

Carcinogenicity

Mutagenicity

Reproductive toxicity

No known significant effects or critical hazards.No known significant effects or critical hazards.

: Suspected of damaging the unborn child.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus -	42 days
		Larvae	
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella	72 hours
	A custo FCEO 44600 um/l Freeb weter	subcapitata	40 haves
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days

**Conclusion/Summary** 

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

#### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

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## **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.23	-	Low
n-Butyl acetate	2.3	-	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Ethylbenzene	3.6	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

#### 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)

: 08.01.11

## **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**

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## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (acetone, n- butyl acetate)	FLAMMABLE LIQUID, N.O.S. (acetone, n- butyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

#### **Additional information**

ADR/RID : Special provisions 640 (C)

Tunnel code (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels. **Special provisions** 640 (C)

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

14.6 Special precautions for

user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

instruments

: Not relevant/applicable due to nature of the product.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

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**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]
OWEDUR 4193-50	≥90	3
Toluene	≥10 - ≤25	48

Labelling

Other EU regulations

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## SECTION 15: Regulatory information

Listed **Industrial emissions** 

(integrated pollution prevention and control) -

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is controlled under the Seveso Directive.

### **Danger criteria**

Category

P<sub>5</sub>c

### **National regulations**

**Austria** 

**VbF** class : A I

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

**Czech Republic** 

Storage code : 1

**Denmark** 

**Danish fire class** : I-1 Executive Order No. 1795/2015

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

**MAL-code** : 4-3

**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, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

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## **SECTION 15: Regulatory information**

MAL-code: 4-3

**Application:** When spraying in new\* booths if the operator is outside 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 half mask and eye protection 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.

- Air-supplied half mask, coveralls and eye protection must be worn.

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.

During non-atomising spraying in existing\* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

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

- Air-supplied full mask, 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.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

**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

: Listed

Carcinogenic waste

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

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Finland France

Social Security Code, Articles L 461-1 to L 461-7 : acetone RG 84 n-Butyl acetate RG 84

Toluene RG 4bis, RG 84
Xylene RG 4bis, RG 84

2-Methoxy-1-methylethyl acetate RG 84 Ethylbenzene RG 84

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## **SECTION 15: Regulatory information**

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

Hazard class for water : 3

**Technical instruction on** 

: TA-Luft Number 5.2.5: 58.4%

air quality control

TA-Luft Class I - Number 5.2.5: 21.4%

**Italy** 

D.Lgs. 152/06 : Not determined.

**Netherlands** 

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

Ingredient name	Carcinogen	•	Reproductive toxicity - Fertility		Harmful via breastfeeding
tolueen	-	-	-	Development 2	-
xylene	-	-	-	Development 2	-

**Water Discharge Policy** 

(ABM)

: A(1) Highly toxic for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

**Norway Sweden** 

Flammable liquid class : 1

(SRVFS 2005:10)

**Switzerland** 

**VOC** content : VOC (w/w): 75.9%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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.

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## **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 (EC) No.

1272/2008

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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 Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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## **SECTION 16: Other information**

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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