# **SAFETY DATA SHEET**



EPITAN 92 - All variants

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

### 1.1 Product identifier

Product name

: EPITAN 92 - All variants

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct 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 Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 3, H412

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 Hazard statements

- : Danger
- : H225 Highly flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

## SECTION 2: Hazards identification

Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	:	P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane; Bis[4- (2,3-epoxypropoxy)phenyl]propane; iso-butanol and Phenol, methylstyrenated
Supplemental label elements	1	Contains epoxy constituents. May produce an allergic reaction.
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.	:	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

1907/2006, Annex XIIIOther hazards which do: None known.not result in classification

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane	CAS: 25036-25-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Bis[4-(2,3-epoxypropoxy) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
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]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0	≤8.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318	-	[1]
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SECTION 3: Compo	sition/informat	ion on in	gredients		
	CAS: 78-83-1 Index: 603-108-00-1		STOT SE 3, H335 STOT SE 3, H336		
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 700-960-7 CAS: 68512-30-1	≤5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	≤3	STOT RE 1, H372 (inhalation)	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
			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.

<u>Type</u>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

### SECTION 4: First aid measures

4.1 Description of first a	id measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Over-exposure signs/symptoms** 

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Notes to physician	1	Treat symptomatically. Contact poison treatment specialist immediately if large
		quantities have been ingested or inhaled.
Specific treatments	1	No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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

Hazards from the substance or mixture	: 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

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### SECTION 5: Firefighting measures

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

	for containing 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 non-combustible, 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

vapo adeo Do r Kee mato	th this product is used. Do not get in eyes or on skin or clothing. Do not breather our or mist. Do not ingest. Avoid release to the environment. Use only with quate ventilation. Wear appropriate respirator when ventilation is inadequate. not enter storage areas and confined spaces unless adequately ventilated. o in the original container or an approved alternative made from a compatible erial, kept tightly closed when not in use. Store and use away from heat, sparks, n flame or any other ignition source. Use explosion-proof electrical (ventilating,
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### **SECTION 7: Handling and storage**

	lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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		
Category	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
₿is[4-(2,3-epoxypropoxy)phenyl]propane	Regulation on Limit Values - MAC (Austria, 4/2021). [1,2-Epoxy- 3-(tolyloxy)propane (all isomers)] TWA: 10 ppm 8 hours. TWA: 70 mg/m <sup>3</sup> 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes.
Xylene	<ul> <li>PEAK: 140 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)]</li> <li>PEAK: 442 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>TWA: 50 ppm 8 hours.</li> <li>PEAK: 100 ppm, 4 times per shift, 15 minutes.</li> </ul>
iso-butanol	TWA: 221 mg/m <sup>3</sup> 8 hours. <b>Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol</b> <b>(all isomers except 2-methyl-2-propanol)]</b> PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 150 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	TWA: 50 ppm 8 hours. PEAK: 600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m <sup>3</sup> 15 minutes.
Butanone	CEIL: 100 ppm 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. <b>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed</b>
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<ul> <li>through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 295 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 200 ppm, 4 times per shift, 30 minutes.</li> <li>PEAK: 590 mg/m<sup>3</sup>, 4 times per shift, 30 minutes.</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021).</li> <li>[Quarzfeinstaub]</li> <li>AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 238 mg/m<sup>3</sup> 8 hours.</li> </ul>
<ul> <li>TWA: 295 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 200 ppm, 4 times per shift, 30 minutes.</li> <li>PEAK: 590 mg/m<sup>3</sup>, 4 times per shift, 30 minutes.</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021).</li> <li>[Quarzfeinstaub]</li> <li>AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>PEAK: 200 ppm, 4 times per shift, 30 minutes.</li> <li>PEAK: 590 mg/m<sup>3</sup>, 4 times per shift, 30 minutes.</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021).</li> <li>[Quarzfeinstaub]</li> <li>AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>Regulation on Limit Values - MAC (Austria, 4/2021).</li> <li>[Quarzfeinstaub] <ul> <li>AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> </ul> </li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> </ul> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li>
<ul> <li>[Quarzfeinstaub] AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>AMV: 0.05 mg/m<sup>3</sup> Form: Respirable dust</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>through skin.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>TWA: 440 mg/m<sup>3</sup> 8 hours.</li> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>CEIL: 200 ppm, 8 times per shift, 5 minutes.</li> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>Limit values (Belgium, 5/2021).</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
<ul> <li>CEIL: 880 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.</li> <li>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
Limit values (Belgium, 5/2021). [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. Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
<ul> <li>skin.</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 221 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>STEL: 442 mg/m<sup>3</sup> 15 minutes.</li> <li>Limit values (Belgium, 5/2021).</li> <li>TWA: 50 ppm 8 hours.</li> <li>TWA: 154 mg/m<sup>3</sup> 8 hours.</li> <li>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</li> <li>STEL: 712 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> </ul>
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TWA: 221 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes. <b>Limit values (Belgium, 5/2021).</b> TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. <b>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</b> STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
TWA: 221 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes. <b>Limit values (Belgium, 5/2021).</b> TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. <b>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</b> STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes. <b>Limit values (Belgium, 5/2021).</b> TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. <b>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</b> STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
STEL: 442 mg/m <sup>3</sup> 15 minutes. Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
TWA: 50 ppm 8 hours. TWA: 154 mg/m <sup>3</sup> 8 hours. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
TWA: 154 mg/m <sup>3</sup> 8 hours. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
STEL: 150 ppm 15 minutes.
TWA: 50 ppm 8 hours.
Limit values (Belgium, 5/2021).
TWA: 200 ppm 8 hours.
TWA: 600 mg/m <sup>3</sup> 8 hours.
STEL: 300 ppm 15 minutes.
STEL: 900 mg/m <sup>3</sup> 15 minutes.
Limit values (Belgium, 5/2021).
TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust
Limit values (Belgium, 5/2021). Absorbed through skin.
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.
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).
Limit value 8 hours: 241 mg/m³ 8 hours. Limit value 15 min: 723 mg/m³ 15 minutes.
Limit value 15 min: 150 ppm 15 minutes.
Limit value 8 hours: 50 ppm 8 hours.
Ministry of Labour and Social Policy and the Ministry of Health Ordinance No 12/2002 (Bulgaria 6/2021)
Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
Limit value 8 hours: 590 mg/m <sup>3</sup> 8 hours.
Limit value 15 min: 885 mg/m <sup>3</sup> 15 minutes.
Ministry of Labour and Social Policy and the Ministry of
Health - Ordinance No 10/2003. (Bulgaria, 6/2021). [respirable
crystalline silica dust]
Limit value 8 hours: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust
Ministry of Labour and Social Policy and the Ministry of
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.
ylene	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.
so-butanol	ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/
50-Butanoi	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 231 mg/m <sup>3</sup> 15 minutes.
	STELV: 75 ppm 15 minutes.
	ELV: 154 mg/m <sup>3</sup> 8 hours.
	ELV: 50 ppm 8 hours.
-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 723 mg/m <sup>3</sup> 15 minutes.
	STELV: 150 ppm 15 minutes. ELV: 241 mg/m <sup>3</sup> 8 hours.
	ELV: 50 ppm 8 hours.
utanone	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 900 mg/m <sup>3</sup> 15 minutes.
	STELV: 300 ppm 15 minutes.
	ELV: 600 mg/m <sup>3</sup> 8 hours.
	ELV: 200 ppm 8 hours.
rystalline silica, respirable powder	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). ELV: 0.1 mg/m <sup>3</sup> 8 hours.
thylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 884 mg/m <sup>3</sup> 15 minutes.
	STELV: 200 ppm 15 minutes.
	ELV: 442 mg/m <sup>3</sup> 8 hours.
	ELV: 100 ppm 8 hours.
ylene	Department of labour inspection (Cyprus, 7/2021). [Xylene,
	mixed isomers] Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m <sup>3</sup> 8 hours.
-Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
Buty doctate	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.
utanone	Department of labour inspection (Cyprus, 7/2021).
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours. TWA: 600 mg/m <sup>3</sup> 8 hours.
thylbenzene	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.

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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.
iso-butanol	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin.
	TWA: 300 mg/m <sup>3</sup> 8 hours.
	TWA: 97.5 ppm 8 hours.
	STEL: 600 mg/m <sup>3</sup> 15 minutes. STEL: 195 ppm 15 minutes.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
Butanone	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022).
	TWA: 600 mg/m <sup>3</sup> 8 hours. TWA: 200.4 ppm 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	STEL: 300.6 ppm 15 minutes.
crystalline silica, respirable powder	Government regulation of Czech Republic PEL/NPK-P (Czech
	<b>Republic, 10/2022). [Quartz]</b> TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: fibers, respirable fraction (Fr) Fr
	= 100 %
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.
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: 442 mg/m 15 minutes.
iso-butanol	Working Environment Authority (Denmark, 6/2022). [Butanol,
	all isomers] Absorbed through skin.
	CEIL: 50 ppm CEIL: 150 mg/m <sup>3</sup>
n-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Butanone	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 50 ppm 8 hours. TWA: 145 mg/m³ 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder	Working Environment Authority (Denmark, 6/2022).
	Carcinogen. TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	STEL: 0.2 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction
Ethylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin. Carcinogen.
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ECTION 8: Exposure controls/personal protection		
	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.	
Xylene	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.	
iso-butanol	STEL: 450 mg/m <sup>3</sup> 15 minutes. TWA: 200 mg/m <sup>3</sup> 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 150 mg/m <sup>3</sup> 8 hours.	
n-Butyl acetate	TWA: 50 ppm 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 50 ppm 8 hours.	
Butanone	TWA: 241 mg/m <sup>3</sup> 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 600 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. STEL: 900 mg/m <sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes.	
crystalline silica, respirable powder	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [respirable crystalline silica dust] TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust	
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.	
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] 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.	
n-Butyl acetate	STEL: 442 mg/m <sup>3</sup> 15 minutes. <b>EU OEL (Europe, 1/2022). Notes: list of indicative</b> <b>occupational exposure limit values</b> STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours.	
Butanone	TWA: 50 ppm 8 hours. <b>EU OEL (Europe, 1/2022). Notes: list of indicative</b> <b>occupational exposure limit values</b> TWA: 200 ppm 8 hours. TWA: 600 mg/m <sup>3</sup> 8 hours. STEL: 300 ppm 15 minutes.	
Ethylbenzene	STEL: 900 mg/m <sup>3</sup> 15 minutes. <b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list</b> <b>of indicative occupational exposure limit values</b> 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.	
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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.
iso-butanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Butanols] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m <sup>3</sup> 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 230 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(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/m <sup>3</sup> 15 minutes.
Butanone	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 300 mg/m <sup>3</sup> 15 minutes.
	TWA: 60 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
crystalline silica, respirable powder	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Silica, crystalline]
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	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.
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.
iso-butanol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	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/m <sup>3</sup> 15 minutes.
Butanone	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
,, · por doi	limit values (article R. 4412-149 of the Labor Code)
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
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.
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	TWA: 88.4 mg/m <sup>3</sup> 8 hours.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
is[4-(2,3-epoxypropoxy)phenyl]propane	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
ylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed throug
	skin.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	PEAK: 440 mg/m³ 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.
o-butanol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 310 mg/m <sup>3</sup> 8 hours. PEAK: 310 mg/m <sup>3</sup> 15 minutes.
	TWA: 100 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 100 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 310 mg/m <sup>3</sup> 8 hours.
	PEAK: 310 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
-Butyl acetate	DFG MAC-values list (Germany, 7/2022).
	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/m <sup>3</sup> 15 minutes.
	PEAK: 124 ppm 15 minutes.
utanone	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	PEAK: 600 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 200 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin. TWA: 200 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: $600 \text{ mg/m}^3 8 \text{ hours.}$
	PEAK: 600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
thylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	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
	skin. DEAK: 40 ppm 4 times per shift 15 minutes
	PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.
	TWA: 88 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.

Xylene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed
	through skin.
	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.
iso-butanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 300 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 300 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	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/m <sup>3</sup> 15 minutes.
Butanone	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
crystalline silica, respirable powder	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [Crystalline silica]
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust
Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	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/m <sup>3</sup> 15 minutes.
<b>X</b> ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture
Kylone	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.
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser.
	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.
Butanone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
Dutanone	
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	PEAK: 900 mg/m <sup>3</sup> 15 minutes.
	PEAK: 300 ppm 15 minutes.
em estelline eiliee, neen inchte meruden	TWA: 200 ppm 8 hours.
crystalline silica, respirable powder	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [crystalline
	silicon dioxide (including quartz, cristobalite, tridymite and
	other forms)]
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable powder
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/m <sup>3</sup> 15 minutes.
	PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
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priete     ministry of watersh, Last of Exposure Limits (celand, 5/2021). (ytere, all somers) Absorbed through skin.       iso-butanol     STEL: 428 ragim? 15 minutes. STEL: 100 mg/m? 16 minutes. TWX: 20 mg/m? 16 minutes. TWX: 20 mg/m? 16 minutes. TWX: 20 mg/m? 16 minutes. STEL: 100 mg/m? 16 minutes. STEL: 200 mg/m? 16 minutes. STEL: 100 mg/m? 16 minutes. STEL: 1		Miniatary of Wolfers, List of Europeuro Limite (loolond, 5/2024)
STEL: 422 mg/m <sup>2</sup> 16 minutes. TWA: 109 mg/m <sup>2</sup> 8 hours. TWA: 25 ppm 8 hours.         iso-butanol       Ministry of Weffare, List of Exposure Limits (Iceland, 5/2021). [butanol, all isomes, except - hutanol] Absorbed through skin.         n-Butyl acetate       STEL: 150 mg/m <sup>2</sup> 15 minutes. STEL: 50 ppm 15 minutes. STEL: 50 ppm 15 minutes.         number of the state of t	<b>X</b> ylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
stabulation       STEL: 100 ppm 15 minutes. TWX: 109 mg/m <sup>2</sup> 8 hours. TWX: 25 ppm 8 hours. TWX: 25 ppm 8 hours.         iso-butanol       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butanol, all isomers].         n-Butyl acetate       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.         STEL: 100 pm 15 minutes.       STEL: 100 pm 15 minutes.         stree: 300 pm 15 minutes.       STEL: 300 pm 15 minutes.         TWX: 50 ppm 15 minutes.       STEL: 300 pm 15 minutes.         TWX: 104 pm/m 25 hours. Form: respirable dust       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.         STEL: 800 pm 15 minutes.       STEL: 800 pm 15 minutes.         TWX: 200 pm 16 hours.       STEL: 300 pm 16 hours.         Crystalline silica, respirable powder       STEL: 800 pm 16 hours.         STEL: 800 pm 16 hours.       STEL: 800 pm 8 hours.         Crystalline silica, respirable powder       Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWX: 20 pm 8 hours.         STEL: 800 pm 8 hours.       STEL: 800 pm 8 hours.         CELV-		
iso-butanol       TWA: 109 mg/m <sup>2</sup> 8 hours.         iso-butanol       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         n-Butyl acetate       STEL: 150 mg/m <sup>2</sup> 15 minutes.         n-Butyl acetate       STEL: 150 mg/m <sup>2</sup> 15 minutes.         stEL: 150 mg/m <sup>2</sup> 15 minutes.       STEL: 150 mg/m <sup>2</sup> 15 minutes.         stEL: 150 mg/m <sup>2</sup> 15 minutes.       STEL: 150 mg/m <sup>2</sup> 15 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 mg/m <sup>2</sup> 15 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 pg/m 15 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 pg/m 15 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 mg/m <sup>2</sup> 16 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 mg/m <sup>2</sup> 16 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 mg/m <sup>2</sup> 16 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         stEL: 150 mg/m <sup>2</sup> 16 minutes.       STEL: 150 mg/m <sup>2</sup> 16 minutes.         step/step/step/step/step/step/step/step/		
iso-butanol       TWA: 25 ppm 8 hours.         iso-butanol       Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butanol, all isomers, except n-butanol] Absorbed through skin.         n-Butyl acetate       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers]         Butanone       STEL: 50 pm 8 hours.         Butanone       STEL: 50 pm 8 hours.         Butanone       STEL: 50 pm 8 hours.         STEL: 723 mg/m <sup>1</sup> 15 minutes.       STEL: 50 pm 8 hours.         STEL: 700 mg/m <sup>1</sup> 15 minutes.       STEL: 500 mg/m <sup>1</sup> 15 minutes.         STEL: 900 mg/m <sup>1</sup> 15 minutes.       STEL: 500 mg/m <sup>1</sup> 15 minutes.         STEL: 900 mg/m <sup>1</sup> 15 minutes.       STEL: 500 mg/m <sup>1</sup> 15 minutes.         crystalline silica, respirable powder       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 500 mg /m <sup>1</sup> 15 minutes.       STEL: 500 mg /m <sup>1</sup> 16 minutes.         Itry/bionzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).       Absorbed through skin.         Kylene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).       Nots of Unites.         iso-butanol       NAOSH (Ireland, 5/2021).       Nots of Unites.         iso-butanol<		
iso-butanol       Ministry of Welfare, List of Exposure Limits (celand, 5/2021).         iso-butanol       STEL: 150 mg/m <sup>1</sup> 15 minutes.         n-Butyl acetate       STEL: 150 mg/m <sup>1</sup> 15 minutes.         STEL: 150 mg/m <sup>1</sup> 15 minutes.       STEL: 150 mg/m <sup>1</sup> 15 minutes.         STEL: 150 mg/m <sup>1</sup> 15 minutes.       STEL: 32 mg/m <sup>1</sup> 15 minutes.         Butanone       Winistry of Welfare, List of Exposure Limits (celand, 5/2021).         Butanone       Winistry of Welfare, List of Exposure Limits (celand, 5/2021).         STEL: 320 gpm 15 minutes.       STEL: 300 mg/m <sup>1</sup> 15 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 6 hours.         TWX: 241 mg/m <sup>2</sup> 8 hours.       TWX: 50 ppm 6 hours.         TWX: 0.1 mg/m <sup>2</sup> 8 hours.       TWX: 0.1 mg/m <sup>2</sup> 8 hours.         TWX: 0.1 mg/m <sup>2</sup> 8 hours.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 hours.       TWX: 0.2 mg/m <sup>2</sup> 8 hours.         TWX: 0.2 mg/m <sup>2</sup> 8 hours.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 hours.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 hours.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STE		
Ibutanol, all isomers, except n-butanol] Absorbed through skin.           n-Butyl acetate         Ibutyl acetate, all isomers, except n-butanol] Absorbed through STEL: 50 pm 15 minutes.           Butanone         Ibutyl acetate, all isomers] TWA: 241 mg/m² B hours. STEL: 723 mg/m² B hours. STEL: 723 mg/m² B hours. STEL: 720 ppm 15 minutes. STEL: 720 ppm 15 minutes. STEL: 700 pm 15 minutes. STEL: 700 pm 15 minutes. STEL: 700 pm 15 minutes. STEL: 700 pm 15 minutes. STEL: 700 mg/m² B hours. STEL: 700 mg/m² B hours. STEL: 700 mg/m² B hours. STEL: 700 mg/m² B hours. TWA: 60 pm 15 minutes. STEL: 700 mg/m² B hours. STEL: 700 pm 15 minutes. STEL: 700 pm 15 minutes. SEL: 700 pm 15	iso-butanol	
skin.       STEL: 150 mg/m² 15 minutes.         n-Butyl acetate       STEL: 150 mg/m² 15 minutes.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 minutes.         stree:       STEL: 300 ppm 15 minutes.         TWA: 50 ppm 8 hours.       STEL: 300 ppm 15 minutes.         TWA: 50 ppm 8 hours.       STEL: 300 ppm 15 minutes.         TWA: 200 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         TWA: 200 ppm 8 hours.       STEL: 300 ppm 15 minutes.         TWA: 200 ppm 8 hours.       STEL: 300 ppm 8 hours.         Stel:       Stel: 48 mg/m <sup>1</sup> 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 mg/m <sup>1</sup> 15 minutes.         Stel:       Stel: 48 mg/m <sup>1</sup> 15 minutes.         Stel:       Stel: 48 mg/m <sup>1</sup> 15 minutes.         Stel:       Stel: 48 mg/m <sup>1</sup> 15 mi		
n-Butyl acetate       STEL: 150 mg/m <sup>2</sup> 15 minutes.         n-Butyl acetate       Ministry of Weifare, List of Exposure Limits (Iceland, 5/2021).         Butanone       TWA: 241 mg/m <sup>2</sup> 8 hours.         Butanone       STEL: 50 pm 15 minutes.         Butanone       Ministry of Weifare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 50 pm 15 minutes.         STEL: 500 mg/m <sup>2</sup> 15 minutes.       STEL: 300 pg/m <sup>2</sup> 15 minutes.         crystalline silica, respirable powder       Ministry of Weifare, List of Exposure Limits (Iceland, 5/2021).         Hinstry of Weifare, List of Exposure Limits (Iceland, 5/2021).       Absorbed through skin.         VA: 0.1 mg/m <sup>2</sup> 8 hours.       STEL: 200 pg/m <sup>2</sup> 16 nours.         Ethylbenzene       Ministry of Weifare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 200 pg/m 15 minutes.         STEL: 200 pg/m 15 minutes.       STEL: 200 pg/m 15 minutes.         Winstry of Weifare, List of Exposure Limits (Iceland, 5/2021).       Absorbed through skin.         Whistry of Weifare, List of Exposure Limits (Iceland, 5/2021).       Absorbed through skin.         WA: 50 ppm 8 hours.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         WA: 50 ppm 8 hours.       OELV-4hr: 150 ppm 15 minutes.         OELV-4hr: 150 ppm		
n-Butyl acetate       STEL: 50 ppm 15 minutes.         n-Butyl acetate       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Butanone       STEL: 50 ppm 15 minutes.         Butanone       STEL: 50 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         crystalline silica, respirable powder       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 minutes.         crystalline silica, respirable powder       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         TWA: 160 ppm 16 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 minutes.       STEL: 300 ppm 16 minutes.         STEL: 300 ppm 16 mi		• • • • • •
n-Butyl acetate       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Butanone       TWA: 241 mg/m <sup>2</sup> 8 hours.         Butanone       STEL: 723 mg/m <sup>2</sup> 15 minutes.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed fungus Skin.       STEL: 300 pm 15 minutes.         STEL: 300 pm 15 minutes.       STEL: 300 pm 15 minutes.         stret.       STEL: 300 pm 15 minutes.         stret.       STEL: 300 pm 16 minutes.         stret.       Stret. 300 pm 16 minutes.         Stret. 200 pm 15 minutes.       Stret. 364 mg/m 16 minutes.         Stret. 200 pm 15 minutes.       Stret. 200 pm 16 minutes.         Stret. 200 pm 16 minutes.       Stret. 200 pm 16 minutes.         Stret. 200 pm 16 minutes.       Stret. 200 pm 16 minutes.         Stret. 200 pm 16 minutes.       OELV-4hr: 50 pm 8 hours.         Stret. 200 pm 16 minutes.       OELV-4hr: 50 pm 16 minutes.         Stret. 200 pm 20 min 5 minutes.       OELV-4hr: 50 pm 16 minutes.         Stret. 200 pm 20 min 5 minutes.       OELV-4hr: 50 pm 16 minutes.         Stret. 200 pm 8 hours.       OELV-4hr: 50 pm 16 minutes.		
Ibutyl acetate, all isomers]           TWA: 50 ppm 8 hours.           TWA: 221 mg/m 8 hours.           STEL: 150 ppm 15 minutes.           STEL: 150 ppm 15 minutes.           STEL: 150 ppm 15 minutes.           STEL: 500 ppm 8 hours.           visiting of Weifare, List of Exposure Limits (Iceland, 5/2021).           Absorbed through skin.           STEL: 300 ppm 15 minutes.           TWA: 146 mg/m 8 hours.           TWA: 146 mg/m 8 hours.           TWA: 146 mg/m 8 hours.           TWA: 100 ppm 15 minutes.           TWA: 100 ppm 16 minutes.           STEL: 300 ppm 15 minutes.           STEL: 300 ppm 15 minutes.           STEL: 300 ppm 15 minutes.           STEL: 300 ppm 16 minutes.           STEL: 300 ppm 16 minutes.           STEL: 300 ppm 17 minutes.           STEL: 300 ppm 16 minutes.           OELV-4hr: 50 ppm 8 hour	n-Butvl acetate	
TWA: 241 mg/m <sup>3</sup> 8 hours.         Butanone         Butanone         STEL: 723 mg/m <sup>3</sup> 15 minutes.         STEL: 720 pm 15 minutes.         STEL: 500 mg/m <sup>3</sup> 16 minutes.         STEL: 500 mg/m <sup>3</sup> 16 minutes.         STEL: 300 pg/m <sup>3</sup> 16 minutes.         STEL: 300 mg/m <sup>3</sup> 16 minutes.         STEL: 300 pg/m <sup>3</sup> 16 minutes.         crystalline silica, respirable powder         Ethylbenzene         Winistry of Wefare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.         STEL: 300 pg/m <sup>3</sup> 16 hours.         TWA: 50 pg/m 8 hours.         OELV-45m: 50 pg/m 15 minutes.         OELV-45m: 50 pg/m 8 hours.         OELV-45min: 72 pg/m <sup>3</sup> 8 hours.         OELV-45min: 72 pg/m <sup>3</sup> 8 hours.         OELV-45min: 70 pg/m		
Butanone       TWA: 50 ppm 8 hours. STEL: 150 ppm 15 minutes.         Butanone       STEL: 150 ppm 15 minutes.         STEL: 150 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         crystalline silica, respirable powder       TWA: 145 mg/m² 8 hours.         Ethylbenzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 hours.         Ethylbenzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 hours.         STEL: 300 ppm 15 hours.       STEL: 300 ppm 15 hours.         STEL: 300 ppm 15 hours.       STEL: 300 ppm 15 hours.         STEL: 300 ppm 15 hours.       STEL: 300 ppm 15 hours.         STEL: 300 ppm 15 hours.       STEL: 300 ppm 15 hours.         TWA: 200 mg/m² 8 hours.       TWA: 200 mg/m² 8 hours.         TWA: 200 ppm 8 hours.       TWA: 200 mg/m² 8 hours.         OELV-9hr: 20 ppm 8 hours.       OELV-9hr: 20 ppm 8 hours.         OELV-9hr: 20 ppm 8 hours.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 16 minutes.         Iso-butanol       NAOSH (reland, 5/2021). Notes: EU derived Occupational Exposure Limit Values         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 15 minutes.         NAOSH (reland, 5/2021). Notes: EU derived		
Butanone       STEL: 725 mig/m <sup>2</sup> 15 minutes.         Butanone       STEL: 150 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         crystalline silica, respirable powder       TWA: 50 ppm 8 hours.         Crystalline silica, respirable powder       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Kinistry of Welfare, List of Exposure Limits (Iceland, 5/2021).       TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 8 hours.         TWA: 200 mg/m <sup>2</sup> 8 hours.       OELV-8hr: 20 ppm 8 hours.         OELV-9hr: 20 ppm 8 hours.       OELV-9hr: 20 ppm 8 hours.         OELV-15min: 420 sopm <sup>2</sup> 8 hours.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 20 ppm 15 minutes.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 8 hours.         NOSH (reland, 5/2021). Notes: EU derived Occupational Exposure Limit Values         OELV-9hr: 50 ppm 8 hours		
Butanone       STEL: 150 ppm 15 minutes.         Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 minutes.         crystalline silica, respirable powder       TWA: 145 mg/m² 8 hours.         Ethylbenzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 300 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       TWA: 0.1 mg/m² 8 hours.         Ethylbenzene       Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.         WASD [(reland, 5/2021), hylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-15min: 422 mg/m³ 15 minutes.         iso-butanol       NAOSH (Ireland, 5/2021). Notes: Edvisory Occupational Exposure Limit Values (OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 8 hours.         OELV-9hr: 50 ppm 8 hours.       OELV-9hr: 50 ppm 15 minutes.         NAOSH (Ireland, 5/2021). Notes: Edvisory Occupational Exposure Limit Values         OELV-9hr: 50 ppm		
Butanone       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 900 mg/m³ 15 minutes.         crystalline silica, respirable powder       TWA: 145 mg/m³ 8 hours.         Ethylbenzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 900 mg/m³ 15 minutes.         STEL: 900 mg/m³ 8 hours.       Form: respirable dust         Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).       Absorbed through skin.         Absorbed through skin.       STEL: 900 pg/m³ 16 minutes.         STEL: 900 pg/m³ 8 hours.       TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.         STEL: 900 pg/m³ 8 hours.       TWA: 50 ppm 8 hours.         STEL: 900 pg/m³ 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 90 pm 8 hours.         OELV-4hr: 90 pm 8 hours.       OELV-4hr: 90 pm 7 15 minutes.         OELV-4hr: 90 ppm 8 hours.       OELV-4hr: 90 ppm 7 15 minutes.         OELV-4hr: 90 ppm 8 hours.       OELV-4hr: 90 ppm 8 hours.         OELV-4hr: 90 ppm 8 hours.       OELV-4hr: 90 ppm 8 hours.         OELV-4hr: 90 ppm 8 hours.       OELV-4hr: 90 ppm 15 minutes.         NAOSH (reland, 5/2021). Nosted throu		
STEL: 900 mg/m <sup>2</sup> 15 minutes.         crystalline silica, respirable powder         Ethylbenzene         Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021).         TWA: 0.1 mg/m <sup>2</sup> 8 hours. Form: respirable dust         Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         TWA: 0.1 mg/m <sup>2</sup> 8 hours.         STEL: 884 mg/m <sup>3</sup> 15 minutes.         STEL: 800 mg/m <sup>2</sup> 8 hours.         TWA: 50 ppm 8 hours.         WA: 50 ppm 8 hours.         OELV-8hr: 50 pp	Butanone	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
STEL: 300 ppm 15 minutes.         TWA: 50 ppm 8 hours.         Crystalline silica, respirable powder         Ethylbenzene         Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021).         TWA: 0.1 mg/m³ 8 hours.         STEL: 380 ppm 8 hours.         STEL: 884 mg/m³ 15 minutes.         STEL: 884 mg/m³ 16 minutes.         OELV-981: 50 ppm 8 hours.         OELV-881: 221 mg/m³ 16 minutes.         OELV-881: 221 mg/m³ 16 minutes.         OELV-981: 50 ppm 8 hours.         OELV-981: 520 ppm 8 hours.         OELV-981: 520 ppm 8 hours.         OELV-981: 221 mg/m³ 16 minutes.         NAOSH (reland, 5/2021). Notes: EU derived Occupational         Exposure Limit Values         OELV-981: 520 ppm 8 hours.         OELV-981: 520 ppm 8 hours.		Absorbed through skin.
TWA: 145 mg/m <sup>2</sup> 8 hours.         TWA: 00 pm 8 hours.         TWA: 00 pm 8 hours.         TWA: 0.1 mg/m <sup>2</sup> 8 hours.         TWA: 0.0 mg/m <sup>2</sup> 15 minutes.         STEL: 200 ppm 15 minutes.         TWA: 0.0 mg/m <sup>2</sup> 16 minutes.         TWA: 0.0 mg/m <sup>2</sup> 16 minutes.         TWA: 0.0 mg/m <sup>2</sup> 16 minutes.         STEL: 200 ppm 15 minutes.         TWA: 0.0 mg/m <sup>2</sup> 16 minutes.         Stel: 200 pm 8 hours.         WAOSH (treland, 5/2021).         Kylene         NAOSH (treland, 5/2021).         NAOSH (tr		STEL: 900 mg/m <sup>3</sup> 15 minutes.
TWA: 50 ppm 8 hours.Crystalline silica, respirable powderEthylbenzeneWinistry of Welfare, List of Exposure Limits (Iceland, 5/2021).TWA: 0.1 mg/m³ 8 hours. Form: respirable dustMinistry of Welfare, List of Exposure Limits (Iceland, 5/2021).Absorbed through skin.STEL: 884 mg/m³ 16 minutes.STEL: 200 ppm 15 minutes.TWA: 50 ppm 8 hours.WA: 200 mg/m³ 8 hours.WA: 50 ppm 8 hours.WA: 50 ppm 8 hours.Stel: 200 ppm 15 minutes.Stel: 200 ppm 8 hours.OELV-8hr: 221 mg/m³ 8 hours.OELV-15min: 100 ppm 15 minutes.OELV-15min: 100 ppm 15 minutes.OELV-15min: 100 ppm 15 minutes.OELV-15min: 225 mg/m³ 8 hours.OELV-15min: 225 mg/m³ 8 hours.OELV-15min: 75 ppm 15 minutes.OELV-15min: 75 ppm 15 minutes.OELV-15min: 725 mg/m³ 15 minutes.OELV-15min: 725 mg/m³ 15 minutes.OELV-15min: 725 mg/m³ 15 minutes.OELV-15min: 720 ppm 8 hours.OELV-15min: 200 ppm 8 hours.OELV-15min		STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Ethylbenzene       Winistry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 884 mg/m³ 15 minutes.         STEL: 884 mg/m³ 15 minutes.       STEL: 200 pgm 15 minutes.         TWA: 200 mg/m³ 8 hours.       TWA: 200 mg/m³ 8 hours.         Kylene       NAOSH (Ireland, 5/2021), [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values         iso-butanol       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.       OELV-4hr: 21 mg/m³ 8 hours.         OELV-15min: 100 ppm 15 minutes.       OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 ppm 15 minutes.       OELV-15min: 75 ppm 15 minutes.         OELV-15min: 75 ppm 15 minutes.       OELV-15min: 75 ppm 15 minutes.         OELV-15min: 75 ppm 15 minutes.       OELV-15min: 75 ppm 15 minutes.         OELV-15min: 75 ppm 8 hours.       OELV-45hr: 20 mg/m³ 8 hours.         OELV-15min: 75 ppm 8 hours.       OELV-15min: 75 ppm 15 minutes.         OELV-15min: 70 ppm 15 minutes.       OELV-15min: 72 mg/m³ 8 hours.         OELV-45hr: 20 ppm 8 hours.       OELV-45hr: 20 ppm 8 hours.         OELV-45hr: 20 ppm 8 hours.       OELV-45hr: 20 ppm 8 hours.         OELV-45hr: 20 ppm 8 hours.       OELV-45hr: 20 ppm 8 hours. <tr< td=""><td></td><td></td></tr<>		
Ethylbenzene       TWA: 0.1 mg/m³ 8 hours. Form: respirable dust         Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.         STEL: 884 mg/m³ 15 minutes.         STEL: 200 pm 15 minutes.         TWA: 50 ppm 8 hours.         Wylene         NAOSH (reland, 5/2021). [sylene mixed isomers] Absorbed through skin.         NAOSH (reland, 5/2021). [sylene mixed isomers] Absorbed through skin.         NAOSH (reland, 5/2021). [sylene mixed isomers] Absorbed through skin.         NAOSH (reland, 5/2021). [sylene mixed isomers] Absorbed through skin.         Notes: EU derived Occupational Exposure Limit Values         OELV-8hr: 221 mg/m³ 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 225 mg/m³ 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 50 ppm 15 minutes.         OELV-15min: 75 ppm 15 minutes.         OELV-15min: 70 ppm 15 minutes.         OELV-15min: 150 ppm 15 minutes.         OELV-15min: 723 mg/m³ 8 hours.         OELV-15min: 720 ppm 8 hours.         OELV-15min: 700 ppm 8 hours.		
Ethylbenzene       Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).         Absorbed through skin.       STEL: 884 mg/m³ 15 minutes.         STEL: 200 ppm 15 minutes.       TWA: 200 ppm 8 hours.         TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 8 hours.       OELV-8hr: 221 mg/m³ 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 60 ppm 8 hours.         OELV-4hr: 50 ppm 8 hours.       OELV-4hr: 60 ppm 8 hours.	crystalline silica, respirable powder	
Absorbed through skin.         STEL: 884 mg/m³ 15 minutes.         STEL: 200 ppm 15 minutes.         TWA: 200 mg/m³ 8 hours.         TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.         OELV-8hr: 100 ppm 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 241 mg/m³ 8 hours.         OELV-8hr: 221 mg/m³ 15 minutes.         NAOSH (reland, 5/2021). Notes: EU derived Occupational Exposure Limit Values         OELV-8hr: 220 ppm 8 hours.         OELV-8hr: 220 ppm 8 hours.         OELV-8hr: 220 ppm 8 hours.		<b>U</b>
STEL: 884 mg/m³ 15 minutes.         STEL: 200 ppm 15 minutes.         TWA: 200 mg/m³ 8 hours.         TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.         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: 50 ppm 8 hours.         OELV-8hr: 60 ppm 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 420 mg/m³ 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-48hr: 150 mg/m³ 15 minutes.         OELV-48hr: 50 ppm 8 hours.         OELV-48hr: 50 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 15 minutes.         OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours. <td>Ethylbenzene</td> <td></td>	Ethylbenzene	
STEL: 200 ppm 15 minutes. TWA: 200 mg/m³ 8 hours.         TWA: 200 mg/m³ 8 hours.         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: 50 ppm 8 hours.         OELV-8hr: 100 ppm 15 minutes.         OELV-15min: 100 ppm 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 ppm 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 ppm 8 hours.         OELV-15min: 100 ppm 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 ppm 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 pm 15 minutes. </td <td></td> <td>-</td>		-
Wiene       TWA: 200 mg/m³ 8 hours. TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 15 minutes.       OELV-45m: 50 ppm 15 minutes.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45min: 75 ppm 15 minutes.       OELV-45min: 75 ppm 15 minutes.         NAOSH (Ireland, 5/2021). Notes: EU derived Occupational       Exposure Limit Values         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 50 ppm 8 hours.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 200 ppm 7 5 minutes.       OELV-45m: 50 ppm 8 hours.         OELV-45m: 200 ppm 8 hours.       OELV-45m: 600 mg/m³ 15 minutes.         OELV-45m: 600 mg/m³ 15 minutes.       OELV-45m: 600 mg/m³ 15 minutes.         OELV-45m: 600 mg/m³ 15 minutes.		
WA: 50 ppm 8 hours.         WA: 50 ppm 8 hours.         WAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values         0ELV-8hr: 20 ppm 8 hours.         0ELV-8hr: 21 mg/m³ 8 hours.         0ELV-8hr: 221 mg/m³ 15 minutes.         0ELV-8hr: 221 mg/m³ 15 minutes.         0ELV-8hr: 50 ppm 8 hours.         0ELV-8hr: 200 ppm 8 hours.		
Writene       NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values         iso-butanol       OELV-8hr: 50 ppm 8 hours.         iso-butanol       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 8 hours.       OELV-8hr: 221 mg/m³ 8 hours.         OELV-8hr: 221 mg/m³ 15 minutes.       OELV-8hr: 50 ppm 15 minutes.         OELV-8hr: 50 ppm 8 hours.       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.       OELV-8hr: 50 ppm 15 minutes.         OELV-8hr: 50 ppm 8 hours.       OELV-8hr: 50 ppm 15 minutes.         OELV-8hr: 50 ppm 15 minutes.       OELV-15min: 729 mg/m³ 15 minutes.         OELV-8hr: 50 ppm 15 minutes.       OELV-8hr: 50 ppm 15 minutes.         OELV-8hr: 50 ppm 15 minutes.       OELV-8hr: 50 ppm 15 minutes.         OELV-8hr: 50 ppm 8 hours.       OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours.       OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours.       OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours.       OELV-8hr: 300 ppm 15 minutes.         OELV-8hr: 900 ppm 15 minutes.       OELV-4hr: 500 opm 15 minutes.         OELV-8hr: 200 ppm 8 hours.       OELV-4hr: 500 ppm 15 minutes.         OELV-8hr: 900 ppm 15 minutes.       OELV-4hr: 500 ppm 15 minutes.         OELV-8hr: 200 ppm 8 hours.       OELV-4hr: 500 ppm 15 minutes		
through skin. Notes: EU derived Occupational Exposure Limit         Values       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 8 hours.       OELV-45min: 100 ppm 15 minutes.         OELV-15min: 424 mg/m³ 15 minutes.       OELV-15min: 424 mg/m³ 15 minutes.         NAOSH (Ireland, 5/2021). Notes: Advisory Occupational       Exposure Limit Values (OELVs)         OELV-15min: 42 mg/m³ 15 minutes.       OELV-45min: 75 ppm 15 minutes.         n-Butyl acetate       NAOSH (Ireland, 5/2021). Notes: EU derived Occupational         Exposure Limit Values       OELV-45min: 72 ppm 15 minutes.         OELV-45min: 50 ppm 8 hours.       OELV-45min: 25 mg/m³ 15 minutes.         OELV-45min: 100 ppm 15 minutes.       OELV-45min: 241 mg/m³ 8 hours.         OELV-45min: 100 ppm 15 minutes.       OELV-45min: 210 mg/m³ 15 minutes.         Butanone       NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values         OELV-45min: 200 ppm 8 hours.       OELV-45min: 300 ppm 15 minutes.         OELV-45min: 300 ppm 15 minutes.       OELV-45min: 300 ppm 15 minutes.         OELV-45min: 900 mg/m³ 8 hours.       OELV-45min: 900 mg/m³ 15 minutes.         OELV-45min: 900 mg/m³ 8 hours.       OELV-45min: 900 mg/m³ 15 minutes.         OELV-45min: 900 mg/m³ 8 hours.       OELV-45min: 900 mg/m³ 8 hours.         OELV-45min: 900 mg/m³ 8 hours.       OELV-45min: 900 mg/m³ 8 hours.		TWA: 50 ppm 8 hours.
Values       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m³ 8 hours.       OELV-15min: 100 ppm 15 minutes.         OELV-15min: 100 ppm 15 minutes.       OELV-15min: 442 mg/m³ 15 minutes.         OELV-15min: 442 mg/m³ 15 minutes.       OELV-45min: 50 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.       OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 150 mg/m³ 8 hours.       OELV-45hr: 150 mg/m³ 8 hours.         OELV-45hr: 150 mg/m³ 8 hours.       OELV-45hr: 150 mg/m³ 8 hours.         OELV-15min: 75 ppm 15 minutes.       OELV-45hr: 50 ppm 8 hours.         OELV-45hr: 50 ppm 8 hours.       OELV-45hr: 50 ppm 8 hours.         OELV-45hr: 50 ppm 8 hours.       OELV-45hr: 50 ppm 8 hours.         OELV-45hr: 50 ppm 8 hours.       OELV-45hr: 50 ppm 8 hours.         OELV-45hr: 241 mg/m³ 8 hours.       OELV-45hr: 21 mg/m³ 8 hours.         OELV-45hr: 210 mg/m³ 15 minutes.       OELV-45hr: 210 mg/m³ 15 minutes.         OELV-45hr: 200 ppm 8 hours.       OELV-45hr: 300 mg/m³ 15 minutes.         OELV-45hr: 300 ppm 15 minutes.       OELV-45hr: 300 mg/m³ 8 hours.         OELV-45hr: 300 ppm 15 minutes.       OELV-45hr: 300 mg/m³ 15 minutes.         OELV-45hr: 300 ppm 15 minutes.       OELV-45hr: 300 mg/m³ 15 minutes.         OELV-45hr: 300 pg/m³ 15 minutes.       OELV-45hr: 300 mg/m³ 15 minutes.         OELV-45hr: 300 pg/m³ 15 minutes.       OELV-45hr: 300 mg/m³ 15 minutes	Xylene	
OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 221 mg/m <sup>2</sup> 8 hours.         OELV-45min: 100 ppm 15 minutes.         OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.         OELV-15min: 75 ppm 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-15min: 75 ppm 15 minutes.         OELV-15min: 75 ppm 15 minutes.         OELV-15min: 75 ppm 8 hours.         OELV-15min: 75 ppm 7 minutes.         OELV-4hr: 50 ppm 8 hours.         OELV-4hr: 50		through skin. Notes: EU derived Occupational Exposure Limit
OELV-8hr: 221 mg/m³ 8 hours.         OELV-15min: 100 ppm 15 minutes.         OELV-15min: 422 mg/m³ 15 minutes.         OELV-15min: 424 mg/m³ 15 minutes.         OELV-15min: 100 ppm 8 hours.         OELV-8hr: 50 ppm 8 hours.         OELV-8hr: 150 mg/m³ 8 hours.         OELV-15min: 225 mg/m³ 15 minutes.         OELV-15min: 225 mg/m³ 15 minutes.         OELV-15min: 150 ppm 8 hours.         OELV-8hr: 150 ppm 8 hours.         OELV-8hr: 150 ppm 8 hours.         OELV-8hr: 21 mg/m³ 8 hours.         OELV-8hr: 225 mg/m³ 15 minutes.         OELV-15min: 150 ppm 15 minutes.         OELV-8hr: 20 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 15 minutes.         OELV-8hr: 200 ppm 8 hours.         OELV-8hr: 200 ppm 15 minutes.         OELV-8hr: 000 mg/m³ 8 hours.         OELV-8hr: 000 mg/m³ 15 minutes.         OELV-8hr: 000 mg/m³ 15 minutes.         OELV-8hr: 000 mg/m³ 15 minutes.         OELV-15min: 300 ppm 15 minutes.         OELV-15min: 300 ppm 15 minutes.         OELV-8hr: 000 mg/m³ 8 hours.         OELV-8hr: 000 mg/m³ 15 minutes. </td <td></td> <td>Values</td>		Values
OELV-15min: 100 ppm 15 minutes.         OELV-15min: 442 mg/m³ 15 minutes.         OELV-15min: 442 mg/m³ 15 minutes.         OELV-8hr: 50 ppm 8 hours.         OELV-15min: 75 ppm 15 minutes.         OELV-15min: 725 mg/m³ 15 minutes.         OELV-15min: 725 mg/m³ 15 minutes.         OELV-8hr: 241 mg/m³ 8 hours.         OELV-15min: 723 mg/m³ 15 minutes.         OELV-15min: 723 mg/m³ 15 minutes.         OELV-15min: 720 ppm 8 hours.         OELV-15min: 720 ppm 8 hours.         OELV-15min: 720 ppm 15 minutes.         OELV-15min: 720 ppm 15 minutes.         OELV-15min: 720 ppm 15 minutes.         OELV-15min: 720 ppm 8 hours.         OELV-15min: 200 ppm 15 minutes.         OELV-15min: 900 ppm 15 minutes.		OELV-8hr: 50 ppm 8 hours.
iso-butanol       OELV-15min: 442 mg/m³ 15 minutes.         iso-butanol       NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 50 ppm 8 hours. OELV-8hr: 150 mg/m³ 8 hours. OELV-15min: 72 pm 15 minutes. OELV-15min: 729 mg/m³ 15 minutes. OELV-15min: 729 mg/m³ 15 minutes. OELV-15min: 720 ppm 8 hours. OELV-15min: 720 ppm 8 hours. OELV-15min: 720 ppm 8 hours. OELV-15min: 720 mg/m³ 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. OELV-15min: 720 ppm 8 hours. OELV-15min: 300 ppm 15 minutes. OELV-15min: 300 ppm 8 hours. OELV-15min: 300 ppm 8 hours. OELV-15min: 900 mg/m³ 15 minutes. OELV-15min: 900 mg/m³ 15 minutes.         crystalline silica, respirable powder       NAOSH (Ireland, 5/2021). [silica, crystalline respirable dust] Notes: EU derived Occupational Exposure Limit Values; List of Carcinogenic Substances, Mixtures and Processes OELV-8hr: 0.1 mg/m³ 8 hours. Form: respirable dust         Ethylbenzene       NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values; List of Carcinogenic Substances, Mixtures and Processes OELV-8hr: 0.1 mg/m³ 8 hours. Form: respirable dust         Ethylbenzene       NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 0.1 mg/m³ 8 hours.		
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N-Butyl acetate       OELV-8hr: 150 mg/m³ 8 hours. OELV-15min: 75 ppm 15 minutes. OELV-15min: 225 mg/m³ 15 minutes. OELV-15min: 225 mg/m³ 15 minutes. OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. OELV-15min: 720 ppm 8 hours. OELV-8hr: 200 ppm 8 hours. OELV-8hr: 200 ppm 8 hours. OELV-8hr: 200 ppm 8 hours. OELV-15min: 300 ppm 15 minutes. OELV-15min: 300 ppm 15 minutes. OELV-8hr: 601 mg/m³ 8 hours. OELV-15min: 900 mg/m³ 15 minutes. OELV-8hr: 0.1 mg/m³ 8 hours. OELV-8hr: 0.1 mg/m³ 8 hours. Form: respirable dust] NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values; List of Carcinogenic Substances, Mixtures and Processes OELV-8hr: 0.1 mg/m³ 8 hours. OELV-8hr: 0.1 mg/m³ 8 hours. OELV-8hr: 100 ppm 8 hours. OELV-8hr: 442 mg/m³ 8 hours.		
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Ethylbenzene       OELV-8hr: 0.1 mg/m³ 8 hours. Form: respirable dust         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.		
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.		
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OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.		
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	Date of issue/Date of revision • 10/06/2024	Date of previous issue : 18/07/2023 Version : 0 14/41

	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
Kylene	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/m <sup>3</sup> 15 minutes.
-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	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.
Butanone	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	8 hours: 200 ppm 8 hours. 8 hours: 600 mg/m <sup>3</sup> 8 hours.
	Short Term: 300 ppm 15 minutes.
	Short Term: 900 mg/m <sup>3</sup> 15 minutes.
rystalline silica, respirable powder	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Crystalline silica]
	8 hours: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
Ethylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
,	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/m <sup>3</sup> 15 minutes.
Kylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
a hutanal	STEL: 442 mg/m <sup>3</sup> 15 minutes.
so-butanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	[Butylalcohol]
Putul apotato	TWA: 10 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 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.
Butanone	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	STEL: 300 ppm 15 minutes.
	TWA: 67 ppm 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
rystalline silica, respirable powder	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	[respirable crystalline silica dust]
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
thylbenzene	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/m <sup>3</sup> 15 minutes.

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▼ylene	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.
iso-butanol	TWA: 221 mg/m <sup>3</sup> 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin. TWA: 10 mg/m³ 8 hours.
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. STEL: 150 ppm 15 minutes.
Butanone	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 600 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
Ethylbenzene	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction 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/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes.
▼ylene	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/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	STEL: 442 mg/m <sup>3</sup> 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). 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.
Butanone	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021).
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m³ 8 hours. STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder	STEL: 900 mg/m <sup>3</sup> 15 minutes. Grand-Duchy Regulation 2016. Carcinogens or mutagens
	agents. Annex III (Luxembourg, 3/2021). [respirable crystalline
	silica dust] TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes.
<b>⋉</b> ylene	STEL: 884 mg/m <sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
Nyione	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.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
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#### SECTION 8: Exposure controls/personal protection 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. Butanone EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 200 ppm 8 hours. TWA: 600 mg/m<sup>3</sup> 8 hours. STEL: 300 ppm 15 minutes. STEL: 900 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. **X**ylene 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 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. **Butanone** Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 590 mg/m<sup>3</sup> 8 hours. STEL,15-min: 900 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 197 ppm 8 hours. STEL,15-min: 300 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit values crystalline silica, respirable powder (Netherlands, 12/2022). OEL, 8-h TWA: 0.075 mg/m<sup>3</sup> 8 hours. Form: Respirable dust Ministry of Social Affairs and Employment, Legal limit values Ethylbenzene (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m<sup>3</sup> 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. **X**ylene 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. iso-butanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. CEIL: 75 mg/m<sup>3</sup> CEIL: 25 ppm 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. **Butanone** FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 75 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours.

crystalline silica, respirable powder	FOR-2011-12-06-1358 (Norway, 12/2022). Carcinogen. Notes: binding limit value
Ethylbenzene	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable dust FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours.
	TWA: 20 mg/m <sup>3</sup> 8 hours.
₩ylene	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/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.
iso-butanol	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.
n-Butyl acetate	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). TWA: 240 mg/m³ 8 hours.
Butanone	STEL: 720 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). Absorbed through skin. TWA: 450 mg/m <sup>3</sup> 8 hours.
crystalline silica, respirable powder	STEL: 900 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
Ethylhonzono	work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [crystalline silica] TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction Begulation of the Minister of Femily Labor and Seciel Policy
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.
₩ylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
iso-butanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours.
n-Butyl acetate	<b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Butanone	<b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
crystalline silica, respirable powder	<b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014).
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		TWA: 20 ppm 8 hours.
	<b>X</b> ylene −	HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021). [Xylene] Absorbed through skin.
		VLA: 221 mg/m <sup>3</sup> 8 hours.
		VLA: 50 ppm 8 hours.
		Short term: 442 mg/m <sup>3</sup> 15 minutes.
		Short term: 100 ppm 15 minutes.
	iso-butanol	HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021).
		VLA: 100 mg/m <sup>3</sup> 8 hours.
		VLA: 33 ppm 8 hours.
		Short term: 200 mg/m <sup>3</sup> 15 minutes.
		Short term: 66 ppm 15 minutes.
	n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021).
		VLA: 241 mg/m <sup>3</sup> 8 hours.
		VLA: 50 ppm 8 hours.
		Short term: 723 mg/m <sup>3</sup> 15 minutes.
		Short term: 150 ppm 15 minutes.
	Butanone	HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021).
		VLA: 600 mg/m <sup>3</sup> 8 hours.
		VLA: 200 ppm 8 hours.
		Short term: 900 mg/m <sup>3</sup> 15 minutes.
		Short term: 300 ppm 15 minutes.
	crystalline silica, respirable powder	HG 1218/2006, Annex 4, with subsequent modifications and
		additions (Romania, 3/2021).
		VLA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust
	Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021). Absorbed through skin.
		VLA: 442 mg/m <sup>3</sup> 8 hours.
		VLA: 100 ppm 8 hours.
		Short term: 884 mg/m <sup>3</sup> 15 minutes.
		Short term: 200 ppm 15 minutes.
	<b>X</b> ylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		[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/m <sup>3</sup> , (xylene, mixed isomers) 15 minutes.
		STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.
	iso-butanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		[Butyl alkohols]
		TWA: 310 mg/m³, (Butyl alkohols) 8 hours.
		TWA: 100 ppm, (Butyl alkohols) 8 hours.
	n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		[Butyl acetates]
		TWA: 241 mg/m <sup>3</sup> , (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.
	Butanone	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		TWA: 600 mg/m <sup>3</sup> 8 hours.
		TWA: 200 ppm 8 hours.
		STEL: 900 mg/m <sup>3</sup> 15 minutes.
		STEL: 300 ppm 15 minutes.
	crystalline silica, respirable powder	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable fiber
		Government regulation SR c. 356/2006 (Slovakia, 9/2020).
		Technical guidance value: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable
		fraction
	Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
		Absorbed through skin.
		TWA: 442 mg/m <sup>3</sup> 8 hours.
		TWA: 100 ppm 8 hours.
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SECTION 8: Exposure controls/personal protection	
	STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes.
₩ylene	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.
	KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.
iso-butanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 310 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
	KTV: 310 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
n-Butyl acetate	KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
	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.
Butanone	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin. TWA: 600 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 900 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Ethylbenzene	KTV: 300 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
	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.
<b>X</b> ylene	National institute of occupational safety and health (Spain, 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.
iso-butanol	STEL: 442 mg/m <sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours.
n-Butyl acetate	TWA: 154 mg/m <sup>3</sup> 8 hours. National institute of occupational safety and health (Spain,
,	4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
Butanone	National institute of occupational safety and health (Spain, 4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	STEL: 300 ppm 15 minutes. STEL: 900 mg/m <sup>3</sup> 15 minutes.
crystalline silica, respirable powder	National institute of occupational safety and health (Spain,
	4/2022). [Silica, crystalline]
Ethylbenzene	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
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ECTION 8: Exposure contro	STEL: 200 ppm 15 minutes. STEL: 884 mg/m <sup>3</sup> 15 minutes.
Xylene	Work environment authority Regulation 2018:1 (Sweden,
Aylerie	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.
so-butanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m <sup>3</sup> 8 hours.
	STEL: 75 ppm 15 minutes. STEL: 250 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/m <sup>3</sup> 15 minutes.
Butanone	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
rystalline silica, respirable powder	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
thulbanzana	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
thylbenzene	Work environment authority Regulation 2018:1 (Sweden, 0/2021). Absorbed through skin
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
Kylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
(yierie	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m <sup>3</sup> 15 minutes.
so-butanol	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 150 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.
Butanone	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 590 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes. STEL: 590 mg/m <sup>3</sup> 15 minutes.
rystalline silica, respirable powder	SUVA (Switzerland, 1/2023). [Silicium dioxide (crystalline) (C
	OEL specific)]
	TWA: 0.15 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
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/m <sup>3</sup> 15 minutes.

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▼ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m <sup>3</sup> 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 899 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
crystalline silica, respirable powder	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,
	respirable crystalline respirable fraction]
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
Kylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 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.
Xylene	<ul> <li>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene]</li> <li>BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the work shift.</li> <li>BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</li> </ul>
Butanone	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 2.6 mg/g creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift. BEI: 4.08 mmol/mol creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift.
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Ethylbenzene	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. REI: 1.12 mol/mol creatining, almond acid (in uring). Sampling
	BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.
	BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.
No exposure indices known.	
Xylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 μmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
No exposure indices known.	
kylene	<ul> <li>DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)]</li> <li>Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.</li> <li>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.</li> </ul>
Butanone	<ul> <li>DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 2 mg/I, 2-butanone [in urine]. Sampling time: end of exposure or end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022)</li> <li>BEI: 2 mg/I, 2-butanone [in urine]. Sampling time: end of exposure or end of shift.</li> </ul>
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
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	[in urine]. Sampling time: end of exposure or end of shift.
No exposure indices known.	
<b>X</b> ylene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene]</b> 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.
Butanone	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b> BEI: 28 μmol/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift. BEI: 2 mg/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift.
Ethylbenzene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b> 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.	
ylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Butanone	<b>NAOSH (Ireland, 1/2011)</b> BMGV: 70 μmol/l, butan-2- one [in urine]. Sampling time: post shift.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origi of the determinant is in question., ethylbenzene [in endexhaled air] Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	

-	e controls/personal protection
₩ylene	<b>Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes]</b> BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Butanone	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 2 mg/l, methyl ethyl ketone (MEK) [in urine]. Sampling time: end of shift.
Ethylbenzene	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
₩ylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/I, methylhippuric acid [in urine]. Sampling time: end of shift.
Butanone	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
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.
₩ylene	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: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 15 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Ethylbenzene	<ul> <li>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</li> <li>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.</li> <li>BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine].</li> <li>Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>BLV: 10590 µmol/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.</li> <li>BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure: after several work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure: after several work shift; long-term exposure: after several work shifts.</li> <li>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.</li> <li>BLV: 1200 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.</li> </ul>
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	of exposure or work shift; long-term exposure: after several work shifts.
₩ylene	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.
Butanone	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	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.
▼ylene	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.
Butanone	National institute of occupational safety and health (Spain, 4/2022) VLB: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
Ethylbenzene	<b>National institute of occupational safety and health (Spain, 4/2022)</b> VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
No exposure indices known.	······································
<b>X</b> ylene	<b>SUVA (Switzerland, 1/2023) [Xylene, all isomers]</b> BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Butanone	<b>SUVA (Switzerland, 1/2023)</b> BEI: 2 mg/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm. BEI: 27.7 μmol/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm.
Ethylbenzene	<b>SUVA (Switzerland, 1/2023)</b> BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
₩ylene	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.
Butanone	<b>EH40/2005 BMGVs (United Kingdom (UK), 8/2018)</b> BGV: 70 μmol/l, butan-2-one [in urine]. Sampling time: post shift.
procedures	eference should be made to monitoring standards, such as the following: aropean Standard EN 689 (Workplace atmospheres - Guidance for the sessment of exposure by inhalation to chemical agents for comparison with limit lues and measurement strategy) European Standard EN 14042 (Workplace mospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 (orkplace atmospheres - General requirements for the performance of procedures the measurement of chemical agents) Reference to national guidance cuments for methods for the determination of hazardous substances will also be
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required.

### DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Bís[4-(2,3-epoxypropoxy)phenyl] propane	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General	Systemic
	DNEL	Long term	4.93 mg/m <sup>3</sup>	population Workers	Systemic
Xylene	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
	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 Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
iso-butanol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup> Workers Local		
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
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	DNEL	Long torm	$10 m a / m^3$	Workers	Svetomia
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	WORKERS	Systemic
Butanone	DNEL	Long term Oral	31 mg/kg	General	Systemic
Dutanone	DINCE	Long term Ora	bw/day	population	Oysternic
	DNEL	Long term	106 mg/m <sup>3</sup>	General	Systemic
	DIVEL	Inhalation	roo mg/m	population	Cysternio
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	- ) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	DNEL	Long term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	<b>J</b>		,
	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
			kg bw/day		-
Phenol, methylstyrenated	DNEL	Long term Oral	0.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	0.348 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term Inhalation	1.41 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	1.67 mg/	General	Systemic
		U U	kg bw/day	population	,
	DNEL	Long term Dermal	3.5 mg/kg	Workers	Systemic
			bw/day		
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m³	General	Systemic
		Inhalation	/ 0	population	
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation			

### **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 measu	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection		

#### xposure controls/personal protection SECTION 8:

•	
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
	> 8 hours (breakthrough time): 4H / Silver Shield® gloves.
	Wash hands before breaks and immediately after handling the product.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	<ul> <li>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.</li> <li>Filter type: A</li> </ul>
	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

<u>Appearance</u>			
Physical state	:	Liquid.	
Colour	:	Black.	
Odour	:	Slight	
Odour threshold	:	Not ava	ilable.
Melting point/freezing point	:	Not ava	ilable.
Initial boiling point and boiling range	:		
Ingredient name			°C
Butanone			79.59
iso-butanol			108

Ingredient name	°C	°F	Method
Butanone	79.59	175.3	
iso-butanol	108	226.4	OECD 103
Flammability : I	lot available.		·
	.ower: 0.8% Jpper: 11.5%		
Flash point : 0	Closed cup: 18°C (64.4°	F)	
Auto-ignition temperature :			

Ingredient name	°C	°F	Method
Butanone	404	759.2	
so-butanol	415	779	
composition temperature	: Not available.		·
	: Not applicable.		
cosity	: Kinematic (40°C): >	>20.5 mm²/s	
lubility(ies)	:		
lot available.			
ubility in water	: Not available.		

Partition coefficient: n-octanol/	:	Not applicable.
water		

2

#### Vapour pressure

Median particle size

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Butanone	78.7564	10.5					
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Relative density	: Not	available.	•				
Density	: 1.5 g	g/cm³					
Vapour density	: Not	available.					
Explosive properties	: Not	available.					
Oxidising properties	: Not	available.					
Particle characteristics							

<b>SECTION 10: Stabilit</b>	y 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

## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
₿is[4-(2,3-epoxypropoxy) phenyl]propane	LD50 Dermal	Rabbit	20 g/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
2	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

### Conclusion/Summary

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

### Acute toxicity estimates

Route	ATE value	
	18531.05 mg/kg 151.95 mg/l	

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Bis[4-(2,3-epoxypropoxy)	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
phenyl]propane				mg	
	Skin - Mild 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	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		5		mg	
Butanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
		D. L. L		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Ethydhonzono		Dabbit		mg	
Ethylbenzene	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	500 mg 24 hours 15	-
	Skin - Mild Imlant	Rabbit	-	_	-
				mg	
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** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

### **SECTION 11: Toxicological information**

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

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation	-
crystalline silica, respirable powder	Category 1	inhalation	-
Ethylbenzene	Category 2	oral, inhalation	hearing organs

#### **Aspiration hazard**

Product/ingredient name	Result	
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 damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

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

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	ects	
Not available.		
Conclusion/Summary	: Not available.	
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### **SECTION 11: Toxicological information**

General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **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
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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
Butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Larvae	
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Phenol, methylstyrenated	Acute EC50 15 mg/l	Algae	72 hours
	Acute EC50 14 mg/l	Daphnia	48 hours
	Acute LC50 25.8 mg/l	Fish	96 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute LC50 10 mg/l	Fish	4 days
Conclusion/Summary	: Harmful to aquatic life with long lasting	g effects.	•

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
iso-butanol	-	74 % - Readily - 28 days		-	-
Conclusion/Summary	: This product ha	: This product has not been tested for biodegradation.			
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
iso-butanol	-		-		Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	8.1 to 25.9	Low
iso-butanol	1	-	Low
n-Butyl acetate	2.3	-	Low
Butanone	0.3	-	Low
Phenol, methylstyrenated	3.627	-	Low
Ethylbenzene	3.6	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

: 18/07/2023

### **SECTION 12: Ecological information**

### Mobility

: Not available.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
henol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane	No	N/A	N/A	No	N/A	N/A	N/A
Bis[4-(2,3-epoxypropoxy) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
Xylene	No	N/A	No	Yes	No	N/A	No
iso-butanol	No	N/A	N/A	No	N/A	N/A	N/A
n-Butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Butanone	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	No	N/A	N/A	No	Ň/A	N/A	N/A

### 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)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group		111		111
14.5 Environmental hazards	No.	No.	No.	No.
Additional informat ADR/RID I4.6 Special precaut	: <u>Tunnel</u>	ort within user's prem		closed containers that are product know what to do ir
1561		t of an accident or spill		e product know what to do in
4.7 Maritime transp bulk according to IN		vant/applicable due to r	nature of the product.	

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

#### Substances of very high concern

Intrinsic property	Ingredient name		Reference number	Date of revision
₩́₽́vB	Phenol, methylstyrenated	Candidate	D(2023) 8585-DC	-

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

Product/ingredient name	%	Designation [Usage]
EPITAN 92	≥90	3

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Date of issue/Date of revision		:10/06/2024	Date of previou	ıs issue	: 18/07/2023	Ve	rsion	:9	35/41
Explosive precursors	1	Not applicable							
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed							
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed							
Other EU regulations									
Labelling									

### **SECTION 15: Regulatory information**

### 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			
P5c			
National regulations			
<u>Austria</u>			
VbF class	: A I Very dangerous flammable liquid.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 1		
<u>Denmark</u>			
Danish fire class	: I-1		
Executive Order No. 1795	<u>5/2015</u>		
Ingredient name		Annex I Section A	Annex I Section B
crystalline silica, respirable powder Ethylbenzene		Listed Listed	-

MAL-code : 3-6

2

**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.

#### MAL-code: 3-6

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

- Protective clothing must be worn.

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

## **SECTION 15: Regulatory information**

		- Air-supplied half mask, protective clothing and eye	protection must be worn.
		When spraying in new* booths if the operator is outs	side the spray zone.
		- Air-supplied half mask and eye protection must be	worn.
		When spraying in existing* spray booths, if the opera During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is wo	of the combined-cabin, spray-
		- Air-supplied full mask and protective clothing must	be worn.
		During all spraying where atomisation occurs in cabi operator is inside the spray zone and during spraying or booth.	
		- Air-supplied full mask, protective clothing and hood	l must be worn.
		<b>Drying:</b> Items for drying/drying ovens that are temp rack trolleys, etc, must be equipped with a mechanic fumes from wet items from passing through workers	cal exhaust system to prevent
		<b>Polishing:</b> When polishing treated surfaces, a mass When machine grinding, eye protection must be wor worn.	
		Caution The regulations contain other stipulations i	n addition to the above.
		*See Regulations.	
Low-boiling liquids	1	This product contains low-boiling point liquids. Any reshould be air-fed.	espiratory protective equipment
Restrictions on use	;	Not to be used by professional users below 18 years Working Environment Authorities Executive Order re	
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a subst by Danish working environment legislation on cance	
Epoxy/Isocyanate	:	The product is covered by the rules for epoxy resins Order no. 1793 of 18/12/2015 on working with subst agents). Pay attention to the rules, for example: the undergone special training and waste must be labell addition to the training requirement described in the entry 74 (COMMISSION REGULATION (EU) 2020/1	and isocyanates in Executive ances and materials (chemical user of the product must have ed. This requirement is in REACH regulation, Annex XVII,
<b>Finland</b>			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7		Xylene iso-butanol n-Butyl acetate Butanone crystalline silica, respirable powder Ethylbenzene	RG 4bis, RG 84 RG 84 RG 84 RG 84 RG 25 RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities medical surveillance: not applicable	which require reinforced
<u>Germany</u>			
Storage class (TRGS 510)	:	3	
Hazardous incident ordina	<u>inc</u>	2	
This product is controlled une	de	the Germany Hazardous Incident Ordinance.	
ate of issue/Date of revision		: 10/06/2024 Date of previous issue : 18/07/2023	Version : 9 37/41

### **SECTION 15: Regulatory information**

### Danger criteria

Catego	ory	Reference number
P5c		1.2.5.3

Hazard class for water	: 2
Technical instruction on air quality control	: ₱A-Luft Number 5.2.5: 35.4% TA-Luft Class I - Number 5.2.5: 1.3%
<u>Italy</u>	
D.Lgs. 152/06	: Not determined.

### Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
sílica, crystalline (NL- carcinogen specific)	Listed	-	-	-	-
xylene	-	-	-	Development 2	-
silica, crystalline (NL- carcinogen specific)	Listed	-	-	-	-
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-

Water Discharge Policy (ABM)	: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z
<u>Norway</u>	
<u>Sweden</u>	
Flammable liquid class (SRVFS 2005:10)	: 1

Epoxy/Isocyanate
 The product is covered by the specific rules for epoxy resins and isocyanates, allergenic chemical products in provision AFS 2011:19 Chemical Hazards in the Working Environment. Pay attention to that handling the product requires certificate of undergone necessary training and can require medical examination. Waste must be labelled with named substance and as Hazardous waste. This requirement is in addition to the training requirement described in the REACH regulation, Annex XVII, entry 74 (COMMISSION REGULATION (EU) 2020/1149).

#### Switzerland VOC content

: VOC (w/w): 20.7%

### 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.

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group</li> </ul>
	vPvB = Very Persistent and Very Bioaccumulative
Urocoduro ucod to doriv	$\alpha$ the element of the element of the transform (EC) No. $4979/9000$ [C] D/CUS1

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 Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
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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revision		
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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.

Date of issue/Date of revision EPITAN 92 - All variants : 10/06/2024 Date of previous issue