Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**



ALPOLAN SPRITZSPACHTEL 1090-00 - All variants

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

### 1.1 Product identifier

Product name : ALPOLAN SPRITZSPACHTEL 1090-00 - 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. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336

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	:	Warning
Hazard statements	:	H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.
Precautionary statements		
Prevention	:	<ul> <li>P280 - Wear protective gloves.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

# SECTION 2: Hazards identification

Hazardous ingredients	:	Contains: n-Butyl acetate; Fatty acids, C14-18 and C16-18-unsatd., maleated and Maleic anhydride
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	1	None known.

not result in classification

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

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤8.2	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]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
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]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3	≤1.7	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336	-	[1] [2]

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	Index: 601-021-00-3		STOT RE 2, H373 Asp. Tox. 1, H304		
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

### SECTION 4: First aid measures

4.1 Description of first a	id measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# SECTION 4: First aid measures

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

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

Over-exposure signs/sympton	<u>ns</u>
Eye contact	No specific data.
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	

### SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

chemical incidents.

conforming to European standard EN 469 will provide a basic level of protection for

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

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

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

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

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

### SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 Safety report threshold threshold P5c 5000 tonne 50000 tonne

#### 7.3 Specific end use(s)

: Not available.

**Recommendations** 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
n-Butyl acetate	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.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
-	(all isomers)]
	PEAK: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 270 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m <sup>3</sup> 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m <sup>3</sup> , 8 times per shift, 5 minutes.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m <sup>3</sup> 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Maleic anhydride	Regulation on Limit Values - MAC (Austria, 4/2021). Skin
	sensitiser. Inhalation sensitiser.
	TWA: 0.1 ppm 8 hours.
	TWA: 0.4 mg/m <sup>3</sup> 8 hours.
	CEIL: 0.2 ppm, 8 times per shift, 5 minutes.
	CEIL: 0.8 mg/m <sup>3</sup> , 8 times per shift, 5 minutes.
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n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m <sup>3</sup> 15 minutes.
	STEL: 712 mg/m 13 minutes. STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m <sup>3</sup> 8 hours.
	TWA: 238 mg/m 8 hours.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
Xylelle	skin.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	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.
Toluene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 77 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
Maleic anhydride	Limit values (Belgium, 5/2021).
	TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol
	TWA: 0.01 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosol
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 723 mg/m <sup>3</sup> 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Xylene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
	(mixture of isomers), pure] Absorbed through skin.
	Limit value 8 hours: 221 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 442 mg/m <sup>3</sup> 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
2-butoxyethyl acetate	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: 133 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 333 mg/m <sup>3</sup> 15 minutes.
	Limit value 8 hours: 20 ppm 8 hours.
	Limit value 15 min: 50 ppm 15 minutes.
Ethylbenzene	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/m³ 15 minutes.
Toluene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 15 min: 384 mg/m <sup>3</sup> 15 minutes.
	Limit value 8 hours: 192 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Maleic anhydride	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 1 mg/m <sup>3</sup> 8 hours.
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	n-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.
	Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
		through skin.
		STELV: 442 mg/m <sup>3</sup> 15 minutes.
		STELV: 100 ppm 15 minutes.
		ELV: 221 mg/m <sup>3</sup> 8 hours.
		ELV: 50 ppm 8 hours.
	2-butoxyethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). Absorbed through skin.
		STELV: 333 mg/m <sup>3</sup> 15 minutes.
		STELV: 50 ppm 15 minutes.
		ELV: 133 mg/m <sup>3</sup> 8 hours.
		ELV: 20 ppm 8 hours.
	Ethylbenzene	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.
	Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). Absorbed through skin.
		STELV: 384 mg/m <sup>3</sup> 15 minutes.
		STELV: 100 ppm 15 minutes.
		ELV: 192 mg/m <sup>3</sup> 8 hours.
		ELV: 50 ppm 8 hours.
	Maleic anhydride	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). Skin sensitiser. Inhalation sensitiser.
		STELV: 0.2 ppm 15 minutes.
		ELV: 0.41 mg/m <sup>3</sup> 8 hours.
		STELV: 0.8 mg/m <sup>3</sup> 15 minutes.
		ELV: 0.1 ppm 8 hours.
	n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
		STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.
		TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.
	Vulana	
	Xylene	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.
	2 butowyothyl postata	TWA: 221 mg/m <sup>3</sup> 8 hours.
	2-butoxyethyl acetate	Department of labour inspection (Cyprus, 7/2021). Absorbed
		through skin.
		STEL: 50 ppm 15 minutes.
		STEL: 333 mg/m <sup>3</sup> 15 minutes.
		TWA: 20 ppm 8 hours.
		TWA: 133 mg/m <sup>3</sup> 8 hours.
	Ethylbenzene	Department of labour inspection (Cyprus, 7/2021). Absorbed
		through skin.
		STEL: 884 mg/m <sup>3</sup> 15 minutes.
		TWA: 100 ppm 8 hours.
		TWA: 442 mg/m <sup>3</sup> 8 hours.
		STEL: 200 ppm 15 minutes.
	Toluene	Department of labour inspection (Cyprus, 7/2021). Absorbed
		through skin.
		STEL: 100 ppm 15 minutes.
		STEL: 384 mg/m <sup>3</sup> 15 minutes.
		TWA: 50 ppm 8 hours.
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	TWA: 192 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
	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.
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czec
Aylene	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/m <sup>3</sup> 15 minutes.
) hutovyothyl agatata	STEL: 90.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czec
-butoxyethyl acetate	
	Republic, 10/2022). Absorbed through skin. TWA: 130 mg/m <sup>3</sup> 8 hours.
	TWA. 130 mg/m² 8 hours.
	STEL: 300 mg/m <sup>3</sup> 15 minutes.
	STEL: 45 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 200 mg/m 8 hours.
	STEL: 500 mg/m <sup>3</sup> 15 minutes.
	STEL: 113.5 ppm 15 minutes.
oluene	Government regulation of Czech Republic PEL/NPK-P (Czec
olderie	Republic, 10/2022). Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 192 mg/m 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100.224 ppm 15 minutes.
/aleic anhydride	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Skin sensitiser.
	TWA: 1 mg/m <sup>3</sup> 8 hours.
	TWA: 0.245 ppm 8 hours.
	STEL: 2 mg/m <sup>3</sup> 15 minutes.
	STEL: 0.49 ppm 15 minutes.
Dutul exetete	
-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.
Cylene	Working Environment Authority (Denmark, 6/2022). [Xylenes
tylene	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 23 ppm 8 hours. TWA: 109 mg/m <sup>3</sup> 8 hours.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
-butoxyethyl acetate	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 25 ppm 6 hours. TWA: 134 mg/m <sup>3</sup> 8 hours.
	STEL: 333 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 217 mg/m <sup>3</sup> 8 hours.
	STEL: 434 mg/m³ 15 minutes.
	STEL: 434 fight 15 minutes.
oluene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.

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	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m <sup>3</sup> 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Valeic anhydride	Working Environment Authority (Denmark, 6/2022).
	TWA: 0.1 ppm 8 hours.
	TWA: 0.4 mg/m <sup>3</sup> 8 hours.
	STEL: 0.8 mg/m <sup>3</sup> 15 minutes.
	STEL: 0.2 ppm 15 minutes.
n-Butyl acetate	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: 241 mg/m <sup>3</sup> 8 hours.
Kylene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
butowyethyl acotato	0
2-butoxyethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
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.
Toluene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	•
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Valeic anhydride	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Skin sensitiser.
	TWA: 1.2 mg/m <sup>3</sup> 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 0.6 ppm 15 minutes.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
Duly abolato	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.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupation
	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.
2-butoxyethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.

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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/m³ 15 minutes.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
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.
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.
2-butoxyethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
, ,	(Finland, 10/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 130 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
Ethylbenzene	STEL: 330 mg/m <sup>3</sup> 15 minutes. 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.
Toluene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours.
	TWA: 23 ppm 8 hours. TWA: 81 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 380 mg/m <sup>3</sup> 15 minutes.
Maleic anhydride	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 0.1 ppm 8 hours.
	TWA: 0.41 mg/m <sup>3</sup> 8 hours. CEIL: 0.2 ppm
	CEIL: 0.81 mg/m <sup>3</sup>
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.
Xylene	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes. 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.
2-butoxyethyl acetate	TWA: 50 ppm 8 hours. Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
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ECTION 8: Exposure co	ntrols/personal protection
•	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 66.5 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m <sup>3</sup> 8 hours.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Toluene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 76.8 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
Malaia anhydrida	STEL: 384 mg/m <sup>3</sup> 15 minutes.
Maleic anhydride	Ministry of Labor (France, 10/2022). Sensitization potential.
	Notes: Permissible limit values (circulars)
	STEL: 1 mg/m <sup>3</sup> 15 minutes.
n-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/m <sup>3</sup> , 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: 000 mg/m 15 minutes. PEAK: 124 ppm 15 minutes.
Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through
Aylene	skin.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	PEAK: 440 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	PEAK: 440 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
2-butoxyethyl acetate	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 65 mg/m <sup>3</sup> 8 hours.
	PEAK: 130 mg/m <sup>3</sup> 15 minutes.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 66 mg/m <sup>3</sup> 8 hours.
	PEAK: 132 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Ethylbenzene	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.
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes.
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin.
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. <b>DFG MAC-values list (Germany, 7/2022). Absorbed through</b> <b>skin.</b> PEAK: 40 ppm, 4 times per shift, 15 minutes.
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. <b>DFG MAC-values list (Germany, 7/2022). Absorbed through</b> <b>skin.</b> PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. <b>DFG MAC-values list (Germany, 7/2022). Absorbed through</b> <b>skin.</b> PEAK: 40 ppm, 4 times per shift, 15 minutes.

#### SECTION 8: Exposure controls/personal protection TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Toluene TWA: 190 ma/m<sup>3</sup> 8 hours. PEAK: 380 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 190 mg/m<sup>3</sup> 8 hours. PEAK: 380 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. Maleic anhydride TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.081 mg/m<sup>3</sup> 8 hours. CEIL: 0.2025 mg/m3 TWA: 0.02 ppm 8 hours. CEIL: 0.05 ppm PEAK: 0.081 mg/m<sup>3</sup> 15 minutes. PEAK: 0.02 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.02 ppm 8 hours. CEIL: 0.05 ml/m<sup>3</sup> TWA: 0.081 mg/m<sup>3</sup> 8 hours. CEIL: 0.2 mg/m<sup>3</sup> PEAK: 0.081 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. PEAK: 0.02 ppm, 4 times per shift, 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. **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. 2-butoxyethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 20 ppm 8 hours. TWA: 135 mg/m<sup>3</sup> 8 hours. STEL: 40 ppm 15 minutes. STEL: 270 mg/m<sup>3</sup> 15 minutes. 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. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Maleic anhydride values (Greece, 9/2021). TWA: 0.25 ppm 8 hours.

I WA: 0.25 ppm 8 hours TWA: 1 mg/m<sup>3</sup> 8 hours.

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<b>SECTION 8: Exposure c</b>	ontrols/personal protection
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.
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture
	of isomers] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	PEAK: 442 mg/m <sup>3</sup> 15 minutes.
	PEAK: 100 ppm 15 minutes.
2 hutovu othul apatota	TWA: 50 ppm 8 hours.
2-butoxyethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	<b>through skin.</b> TWA: 133 mg/m³ 8 hours.
	PEAK: 333 mg/m <sup>3</sup> 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	PEAK: 884 mg/m <sup>3</sup> 15 minutes.
	PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	PEAK: 384 mg/m <sup>3</sup> 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Maleic anhydride	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser.
	Inhalation sensitiser.
	TWA: 0.08 mg/m <sup>3</sup> 8 hours.
	PEAK: 0.08 mg/m <sup>3</sup> 15 minutes.
	PEAK: 0.2 ppm 15 minutes.
	TWA: 0.2 ppm 8 hours.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butyl acetate, all isomers]
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
Yedan a	STEL: 150 ppm 15 minutes.
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[xylene, all isomers] Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours.
	TWA: 109 mg/m 8 hours.
2-butoxyethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
,	Absorbed through skin.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Toluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
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	TWA: 94 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
Maleic anhydride	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Skin sensitiser.
	TWA: 0.4 mg/m <sup>3</sup> 8 hours. TWA: 0.1 ppm 8 hours.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 150 ppm 15 minutes.
M	OELV-15min: 723 mg/m <sup>3</sup> 15 minutes.
Xylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Lim
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 133 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 333 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m <sup>3</sup> 8 hours. OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
Toluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 192 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m <sup>3</sup> 15 minutes.
Maleic anhydride	NAOSH (Ireland, 5/2021). Sensitization potential. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and
	Vapour note is used when a material exerts sufficient vapour
	pressure such that it may be present in both particle and vapour
	phases.
-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.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 20 ppm 8 hours.
	8 hours: 133 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes.
	Short Term: 333 mg/m <sup>3</sup> 15 minutes.
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.
<b>T</b> - 1	Short Term: 884 mg/m <sup>3</sup> 15 minutes.
Toluene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 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.
Xylene	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.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021
	Absorbed through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	TWA: 133 mg/m² 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021
	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
Toluene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021
	Absorbed through skin.
	TWA: 50 mg/m <sup>3</sup> 8 hours.
	STEL: 150 mg/m <sup>3</sup> 15 minutes.
	TWA: 14 ppm 8 hours.
	STEL: 40 ppm 15 minutes.
Maleic anhydride	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021
	TWA: 1 mg/m <sup>3</sup> 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.
Xylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
A show	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 70 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 140 mg/m <sup>3</sup> 15 minutes.
	STEL: 20 ppm 15 minutes.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
,	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.

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Toluene	STEL: 200 ppm 15 minutes.
loidene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Maleic anhydride	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin
	sensitiser. Inhalation sensitiser.
	TWA: 1.2 mg/m <sup>3</sup> 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 0.6 ppm 15 minutes.
n-Butyl acetate	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/m³ 8 hours.
Xylene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
Xylerie	(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.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
Ethydhoursene	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin. 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.
Toluene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
n-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.
Yulono	TWA: 50 ppm 8 hours.
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.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
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SECTION 8: Exposure controls/personal protection		
	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.	
Toluene	STEL: 884 mg/m <sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list	
	of indicative occupational exposure limit values	
	TWA: 192 mg/m <sup>3</sup> 8 hours.	
	TWA: 50 ppm 8 hours. STEL: 384 mg/m <sup>3</sup> 15 minutes.	
	STEL: 100 ppm 15 minutes.	
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values	
	(Netherlands, 12/2022). $OEL = 8 h TW(A) = 241 m g/m^3 8 hours$	
	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.	
Yulono.	OEL, 8-h TWA: 50 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values	
Xylene	(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.	
2-butoxyethyl acetate	Ministry of Social Affairs and Employment, Legal limit values	
	(Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 135 mg/m <sup>3</sup> 8 hours.	
	STEL,15-min: 333 mg/m <sup>3</sup> 15 minutes.	
	OEL, 8-h TWA: 20.3 ppm 8 hours.	
Ethylbenzene	STEL,15-min: 50 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit values	
,	(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.	
Toluene	Ministry of Social Affairs and Employment, Legal limit values	
	(Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m <sup>3</sup> 8 hours.	
	STEL,15-min: 384 mg/m <sup>3</sup> 15 minutes.	
	STEL,15-min: 100 ppm 15 minutes.	
n Duthal acastata	OEL, 8-h TWA: 39 ppm 8 hours.	
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). 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.	
Xylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers]	
	Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours.	
	TWA: 108 mg/m <sup>3</sup> 8 hours.	
2-butoxyethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value	
	TWA: 10 ppm 8 hours.	
	TWA: 65 mg/m <sup>3</sup> 8 hours.	
Ethylbenzene	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.	
Toluene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through	
	skin. Notes: indicative limit value TWA: 25 ppm 8 hours.	
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Maleic anhydride	TWA: 94 mg/m <sup>3</sup> 8 hours. <b>FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.</b> TWA: 0.2 ppm 8 hours. TWA: 0.8 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible
Xylene	concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m <sup>3</sup> 8 hours. STEL: 720 mg/m <sup>3</sup> 15 minutes. 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
2-butoxyethyl acetate	through skin. TWA: 100 mg/m <sup>3</sup> 8 hours. STEL: 200 mg/m <sup>3</sup> 15 minutes. Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m <sup>3</sup> 8 hours.
Ethylbenzene	STEL: 300 mg/m <sup>3</sup> 15 minutes. Regulation of the Minister of Family, Labor and Social Polic 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.
oluene	TWA: 200 mg/m <sup>3</sup> 8 hours. STEL: 400 mg/m <sup>3</sup> 15 minutes. <b>Regulation of the Minister of Family, Labor and Social Polic</b> of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in th
Maleic anhydride	<ul> <li>work environment (Journal of Laws 2021, item 325) (Poland 2/2021). Absorbed through skin.</li> <li>TWA: 100 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 200 mg/m<sup>3</sup> 15 minutes.</li> <li>Regulation of the Minister of Family, Labor and Social Polic of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in th work environment (Journal of Laws 2021, item 325) (Poland 2/2021). Absorbed through skin.</li> <li>TWA: 0.5 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 1 mg/m<sup>3</sup> 15 minutes.</li> </ul>
n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
(ylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
2-butoxyethyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
Foluene	Portuguese Institute of Quality (Portugal, 11/2014). Absorbe through skin. TWA: 20 ppm 8 hours.
Maleic anhydride	<b>Portuguese Institute of Quality (Portugal, 11/2014). Skin</b> <b>sensitiser.</b> TWA: 0.01 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction and vapor

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.
Xylene	HG 1218/2006, Annex 1, with subsequent modifications and
Aylene	
	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.
2-butoxyethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 133 mg/m <sup>3</sup> 8 hours.
	VLA: 20 ppm 8 hours.
	Short term: 333 mg/m <sup>3</sup> 15 minutes.
	Short term: 50 ppm 15 minutes.
Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and
Euryidenzene	
	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.
Toluene	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 192 mg/m <sup>3</sup> 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 384 mg/m <sup>3</sup> 15 minutes.
	Short term: 100 ppm 15 minutes.
Maleic anhydride	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 1 mg/m <sup>3</sup> 8 hours.
	VLA: 0.25 ppm 8 hours.
	Short term: 3 mg/m <sup>3</sup> 15 minutes.
	Short term: 0.75 ppm 15 minutes.
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/m³, (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
<i>Nylono</i>	[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.
2-butoxyethyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
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.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 192 fight o hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
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Maleic anhydride	STEL: 100 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skir sensitiser. TWA: 0.41 mg/m <sup>3</sup> 8 hours. TWA: 0.1 ppm 8 hours.
n-Butyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
Xylene	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. <b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b> <b>[xylene (mixture of isomers)] Absorbed through skin.</b> TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
2-butoxyethyl acetate	KTV: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.
Ethylbenzene	TWA: 133 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. KTV: 333 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. <b>Regulation on protection of workers from the risks related to</b> <b>exposure to chemical substances at work (Slovenia, 5/2021).</b> <b>Absorbed through skin.</b> TWA: 442 mg/m <sup>3</sup> 8 hours.
Toluene	TWA: 100 ppm 8 hours. KTV: 884 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. <b>Regulation on protection of workers from the risks related to</b> <b>exposure to chemical substances at work (Slovenia, 5/2021).</b> <b>Absorbed through skin.</b> TWA: 192 mg/m <sup>3</sup> 8 hours.
Maleic anhydride	TWA: 50 ppm 8 hours. KTV: 384 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. <b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b> TWA: 0.41 mg/m <sup>3</sup> 8 hours. TWA: 0.1 ppm 8 hours. KTV: 0.41 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 0.1 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	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.
Xylene	STEL: 723 mg/m <sup>3</sup> 15 minutes. 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.
2-butoxyethyl acetate	STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes. <b>National institute of occupational safety and health (Spain,</b> <b>4/2022). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 133 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes.
Ethylbenzene	STEL: 333 mg/m <sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain,

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	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
oluene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
laleic anhydride	National institute of occupational safety and health (Spain,
	4/2022). Skin sensitiser. Inhalation sensitiser.
	TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours.
-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
-Dutyl acetate	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 30 ppm o hours. TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
ylene	Work environment authority Regulation 2018:1 (Sweden,
<b>,</b>	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.
-butoxyethyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 70 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
Ethylbenzene	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
aluana	STEL: 884 mg/m <sup>3</sup> 15 minutes.
oluene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Ototoxicant.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
laleic anhydride	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Skin sensitiser.
	TWA: 0.05 ppm 8 hours.
	TWA: 0.2 mg/m <sup>3</sup> 8 hours.
	STEL: 0.1 ppm 15 minutes.
	STEL: 0.4 mg/m <sup>3</sup> 15 minutes.
-Butyl acetate	SUVA (Switzerland, 1/2023).
Buly doctate	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.
ylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
,	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m <sup>3</sup> 15 minutes.
-butoxyethyl acetate	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours. Form: vapour and aerosols

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	TWA: 66 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosols
	STEL: 20 ppm 15 minutes. Form: vapour and aerosols
	STEL: 132 mg/m <sup>3</sup> 15 minutes. Form: vapour and aerosols
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.
Toluene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 760 mg/m <sup>3</sup> 15 minutes.
Maleic anhydride	SUVA (Switzerland, 1/2023). Skin sensitiser.
	TWA: 0.1 ppm 8 hours. Form: vapour and aerosols
	TWA: 0.4 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosols
	STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols
	STEL: 0.4 mg/m <sup>3</sup> 15 minutes. Form: vapour and aerosols
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
2	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.
Xylene	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.
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 332 mg/m <sup>3</sup> 15 minutes.
	TWA: 133 mg/m³ 8 hours.
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/m³ 8 hours.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m <sup>3</sup> 15 minutes.
	TWA: 734 mg/m³ 8 hours.
Maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 3 mg/m <sup>3</sup> 15 minutes.
	TWA: 1 mg/m <sup>3</sup> 8 hours.

**Biological exposure indices** 

Product/ingredient name	Exposure indices				
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.				
Toluene	VGU BEI (Austria, 9/2020) BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one yea BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one yea BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one				
	year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Samplir time: one year.				
	BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time one year.				
	BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling 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.				
Foluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Samplir time: after the end of the exposure or the end of the work shift.				
Kylene	<ul> <li>Ministry of Economy, Labour and Entrepreneurship ILV/STE (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 o 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>				
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ILV/STER (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.				
Toluene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)				

	BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.
	BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time:
	during exposure. BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the
	work shift.
	BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift.
	BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.
	BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the
	end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling
	time: at the end of the work shift.
	BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
Xylene	Government regulation of Czech Republic Limit Values of
Хуюне	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.
2-butoxyethyl acetate	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)
	Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift
	at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid
	(after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
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.
Toluene	Government regulation of Czech Republic Limit Values of
	Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1000 µmol/mmol creatinine, hippuric acid
	[in urine]. Sampling time: end of the shift.
	Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.
	Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after
	hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after
	hydrolysis) [in urine]. Sampling time: end of the shift.
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
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	work shift at the end of the working week or exposure period.
Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.
No exposure indices known.	
Xylene	<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>
2-butoxyethyl acetate	<ul> <li>DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022)</li> <li>BEI: 150 mg/g, butoxy acetic acid (after hydrolysis) [in urine].</li> <li>Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.</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 aci [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
Toluene	<ul> <li>DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately afte exposure.</li> <li>BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure o end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022)</li> <li>BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure.</li> <li>BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time end of exposure or end of shift; for long-term exposures: at the end of shift.</li> </ul>
No exposure indices known.	
Xylene	<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.
Ethylbenzene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b> BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling tim 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

SECTION 8: Exposure cont	
	shift.
Toluene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b> BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: a the end of the shift.
No exposure indices known.	
Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air] Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
Toluene	NAOSH (Ireland, 1/2011) BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
No exposure indices known.	
Toluene	Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: en of the shift.
No exposure indices known.	
Xylene	<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.
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.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end o shift.

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	BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.
Xylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
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.
Toluene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.
Xylene	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: 1000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine].
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 or 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: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shifts.</li> <li>BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shifts.</li> </ul>
Toluene	<b>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</b> BLV: 1010 μmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
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		BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
		BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
		BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
		BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
		BLV: 14.3 μmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work
		shifts. BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.
		BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
		BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
		BLV: 600 μg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.
	Xylene	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.
	2-butoxyethyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
	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.
	Toluene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μg/l, toluene [in urine]. Sampling time: at the end of the work shift.
	Xylene	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.
	Ethylbenzene	National institute of occupational safety and health (Spain,
		<b>4/2022)</b> VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
	Toluene	National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
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<b>SECTION 8: Exposure</b>	controls/personal protection
··	VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.
No exposure indices known.	
Xylene	<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.
2-butoxyethyl acetate	<b>SUVA (Switzerland, 1/2023)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
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.
Toluene	<ul> <li>SUVA (Switzerland, 1/2023)</li> <li>BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</li> <li>BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</li> <li>BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</li> <li>BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</li> <li>BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</li> <li>BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.</li> <li>BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.</li> <li>BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.</li> <li>BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.</li> </ul>
Xylene	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.
Recommended monitoring : procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of above agents). Beforements and adverse

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Populatior	n Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
	DNEL	Long term Oral	bw/day 2 mg/kg bw/day	population General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
e of issue/Date of revision : 03	3/01/2024	Date of previous issue	: No prev	ious validation	Version : 1 30/44
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required.

for the measurement of chemical agents) Reference to national guidance

documents for methods for the determination of hazardous substances will also be

DNEL	Short term	200	population General	1
		300 mg/m <sup>3</sup>		Local
	Inhalation		population	
DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
	Inhalation	$300 \text{ mg/m}^3$	population Workers	Local
DINLL		500 mg/m	WORKEIS	LUCAI
DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL	Short term	600 mg/m³	Workers	Systemic
			Conorol	Quatamia
DNEL	Long term Dermai			Systemic
DNEL	Long term Dermal			Systemic
DITE	Long toni Donna		TT OILLOID	Cyclonic
DNEL	Long term	12 mg/m³	General	Systemic
	Inhalation		population	
DNEL	-	48 mg/m³	Workers	Systemic
		65.2 mg/m <sup>3</sup>	Conoral	Local
DINEL		00.5 mg/m²		LUCAI
DNEL	Short term	260 ma/m³	General	Local
	Inhalation	J	population	
DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
DUC		004	population	1
DNEL	0	221 mg/m³	Workers	Local
		12.5 mg/	General	Systemic
DINLL				Systemic
DNEL	Long term			Systemic
	Inhalation	0	population	
DNEL	Long term Dermal	125 mg/kg	General	Systemic
DNEL	Long term Dermal		Workers	Systemic
DNEI	l ong term		Workers	Systemic
DINEL		22 i mg/m	Workers	Cysternio
DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL		442 mg/m <sup>3</sup>	Workers	Systemic
			Conorol	Quatamia
DNEL	Long term Orai			Systemic
DNEL	Short term Oral			Systemic
DNEL	Short term Dermal	72 mg/kg	General	Systemic
			population	
DNEL		ชบ mg/m³		Systemic
		102 ma/ka		Systemic
				Cysternie
DNEL	Short term Dermal	120 mg/kg	Workers	Systemic
		bw/day		
DNEL	Long term	133 mg/m³	Workers	Systemic
		160 mm//	Works-	Quetom:-
DINEL	Long term Dermal		workers	Systemic
DNEL	Short term		General	Local
	Inhalation	,	population	2000
DNEL	Short term	333 mg/m³	Workers	Local
	Inhalation			
DNEL	Long term Oral			Systemic
	Long torm			Systemia
DINEL		15 mg/m²		Systemic
DNEL		77 ma/m³	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELInhalation Short term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term OralDNELLong term OralDNELShort term InhalationDNELShort term InhalationDNELShort term OralDNELShort term OralDNELShort term OralDNELCong term DermalDNELShort term OralDNELShort term OralDNELLong term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term OralDNELShort term DermalDNELLong term DermalDNELShort termDNELShort termDNELShort termDNELShort termDNELShort termDNELShort termDNELShort	InhalationODNELShort term600 mg/m³Inhalation600 mg/m³Inhalation3.4 mg/kgDNELLong term Dermal3.4 mg/kgDNELLong term Dermal7 mg/kgDNELLong term Dermal12 mg/m³Inhalation12 mg/m³DNELLong term48 mg/m³Inhalation5.3 mg/m³Inhalation5.3 mg/m³Inhalation12.5 mg/kgDNELShort term260 mg/m³Inhalation12.5 mg/kgDNELShort term260 mg/m³Inhalation12.5 mg/kgDNELLong term Oral12.5 mg/kgDNELLong term Oral12.5 mg/kgDNELLong term Dermal125 mg/kgbw/dayDNELShort term442 mg/m³InhalationNELShort term36 mg/kgbw/dayDNELShort term Oral8.6 mg/kgbw/dayDNELLong term Dermal102 mg/kgbw/dayDNELShort term Dermal102 mg/kgbw/dayDNELShort term Dermal102 mg/kgbw/dayDNELLong term Dermal102 mg/kgbw/dayDNELLong term Dermal102 mg/kgbw/dayDNELShort term	DNEL Inhalation300 mg/m³ WorkersWorkersDNEL Inhalation600 mg/m³WorkersDNEL Inhalation600 mg/m³WorkersDNEL InhalationShort term Inhalation600 mg/m³WorkersDNEL InhalationLong term Dermal Inhalation3.4 mg/kg bw/dayGeneral populationDNEL InhalationLong term Inhalation12 mg/m³ BopulationGeneral populationDNEL InhalationLong term Inhalation48 mg/m³WorkersDNEL InhalationCom g/m³ Beneral populationGeneral populationGeneral populationDNEL InhalationShort term Inhalation260 mg/m³ Beneral populationGeneral populationDNEL InhalationShort term Inhalation221 mg/m³ BopulationGeneral populationDNEL InhalationLong term Bb/day BVRL Inhalation125 mg/kg Borday BorterGeneral populationDNEL InhalationCom general population125 mg/kg BordayGeneral populationDNEL InhalationLong term Dermal Inhalation125 mg/kg BordayGeneral populationDNEL InhalationShort term Inhalation212 mg/m³ WorkersWorkersDNEL InhalationLong term Oral Bord term Inhalation8.6 mg/kg Borderal populationGeneral populationDNEL InhalationShort term Dermal Bord term Inhalation102 mg/kg Borderal populationGeneral populationDNEL Inhalation<

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ECTION 8: Exposure c		Inhalation			
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Inhalation Short term	884 mg/m³	Workers	Systemic
Toluene	DNEL	Inhalation Long term Oral	8.13 mg/	General	Systemic
	DNEL	Long term	kg bw/day 56.5 mg/m³	population General	Local
	DNEL	Inhalation Long term	56.5 mg/m³		Systemic
	DNEL	Inhalation Long term	192 mg/m <sup>3</sup>	population Workers	Local
		Inhalation			
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General	Local
	DNEL	Short term	226 mg/m <sup>3</sup>	population General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	Workers	Systemic
Fatty acids, C14-18 and C16-18-unsatd., maleated	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	Systemic
CTO-TO-Unsalu., malealeu	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 3 mg/kg	population Workers	Systemic
Maleic anhydride	DNEL	Long term	bw/day 0.081 mg/	Workers	Local
	DNEL	Inhalation Long term	m³ 0.081 mg/	Workers	Systemic
	DNEL	Inhalation Short term	m <sup>3</sup> 0.2 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	0.2 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	J. J		
	DNEL	Long term Inhalation	0.05 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
	DNEL	Long term	0.08 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Short term Oral	0.1 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 0.1 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 0.1 mg/kg	population General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic

#### **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 meas	<u>ures</u>
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: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<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

Appearance	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight

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Date of issue/Date of revision :03/01/2024 Date of previous issue : No previous validation ALPOLAN SPRITZSPACHTEL 1090-00 - All variants

# SECTION 9: Physical and chemical properties

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Odour threshold	1	١
Melting point/freezing point	:	٢
Initial boiling point and	1	

:	Not available.
:	Not available.

nitial boiling point and poiling range	:			
Ingredient name		°C	°F	Method
Toluene		110.6	231.1	
n-Butyl acetate		126	258.8	OECD 103

Flammability	
Lower and upper explosion limit	

: Lower: 0.8% Upper: 7.6%

: Not available.

- Flash point
- : Closed cup: 27°C (80.6°F)

#### Auto-ignition temperature

Ingredient name			°C	°F	Method	
2-butoxyethyl acetate			340	644		
n-Butyl acetate			415	779	EU A.15	
Decomposition temperature	:	Not ava	ilable.			
рН	:	Not app	licable.			
Viscosity	:	Not ava	ilable.			
Solubility(ies)	1					
Not available.						
Solubility in water	:	Not ava	ilable.			
Partition coefficient: n-octanol/	:	Not app	licable.			

#### water

#### Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Toluene	23.17	3.1					
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Relative density	: Not	available.					
Density	: 1.3	g/cm³					
Vapour density	: Not	available.					
Explosive properties	: Not	available.					
Oxidising properties	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					

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

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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# **SECTION 10: Stability and reactivity**

#### 10.5 Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

#### **10.6 Hazardous** decomposition products

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

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

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
-	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Route	ATE value	
Dermal	16789.62 mg/kg	
Inhalation (vapours)	133.6 mg/l	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
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	
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-

	Skin - Moderate irritant	Rabbit	_	mg 500 mg	-
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Based on available data,	he classification	n criteria	are not met.	
<u>Sensitisation</u>					
Conclusion/Summary	: May cause an allergic ski	n reaction.			
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data,	he classification	n criteria	are not met.	
Carcinogenicity					

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

<b>Conclusion/Summary</b>	:	Based on available data, the classification criteria are not met.
Reproductive toxicity		
<b>Conclusion/Summary</b>	:	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>		

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

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

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

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation	-
Ethylbenzene	Category 2	oral, inhalation	hearing organs
Toluene	Category 2	-	-
Maleic anhydride	Category 1	inhalation	respiratory system

#### **Aspiration hazard**

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

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

#### of exposure

#### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

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

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact	: Adverse symptoms may include the following: irritation
	redness
Ingestion	: No specific data.
Delayed and immediate effect	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **11.2 Information on other hazards**

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
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
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary

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

#### 12.2 Persistence and degradability

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

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## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-Butyl acetate	2.3	-	Low
Xylene	3.12	8.1 to 25.9	Low
2-butoxyethyl acetate	1.51	-	Low
Ethylbenzene	3.6	-	Low
Toluene	2.73	90	Low
Maleic anhydride	-2.78	-	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 08.01.11
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

SECTION 14: Transport information					
	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993	
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)	
14.3 Transport hazard class(es)	3	3	3	3	
14.4 Packing group	111	111	111	111	
14.5 Environmental hazards	No.	Yes.	No.	No.	
Additional information         ADR/RID       : Tunnel code (D/E)         ADN       : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.					
<b>14.6 Special precautions for : Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.					
14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO instruments					

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name			%	Designat	tion [Usage]			
ALPOLAN SPRITZSPACH	ΓEI	_ 1090-00	≥90 ≤1.7	3 48				
Labelling	:							
<u> Other EU regulations</u>								
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed						
Explosive precursors	:	Not applicab	ole.					
te of issue/Date of revision		: 03/01/2024	Date of pre	evious issue	: No previous validation	Version	:1	39/44
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### **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.

Category			
P5c			
lational regulations			
<u>Austria</u>			
VbF class	: A II Very dangerous flammable liquid.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 11		
<u>Denmark</u>			
Danish fire class	: II-1		
Executive Order No. 1795	<u>5/2015</u>		
Ingredient name		Annex I Section A	Annex I Section E
titanium dioxide		Listed	-
Ethylbenzene Propan-2-ol		Listed	-
		Listed	-

# According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

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

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

#### MAL-code: 3-3

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

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

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.

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

# SECTION 15: Regulatory information

	When spraying in existing* spray booths, if the operator i	s outside the spray zone	
	- Air-supplied full mask, arm protectors and apron must b	be worn.	
	During non-atomising spraying in existing* facilities of the combined-cabin, sp cabin and spray-booth type where the operator is working inside the spray zo		
	- Air-supplied full mask, arm protectors and apron must be worn.		
	During all spraying where atomisation occurs in cabins o operator is inside the spray zone and during spraying out or booth.		
	- Air-supplied full mask, coveralls and hood must be wor	n.	
	<b>Drying:</b> Items for drying/drying ovens that are temporari rack trolleys, etc, must be equipped with a mechanical ex fumes from wet items from passing through workers' inh	xhaust system to prevent	
	<b>Polishing:</b> When polishing treated surfaces, a mask wit When machine grinding, eye protection must be worn. W worn.		
	<b>Caution</b> The regulations contain other stipulations in ad	dition to the above.	
	*See Regulations.		
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At \		
List of undesirable substances	: Listed		
Carcinogenic waste	: Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer risk		
Finland			
France Social Security Code,	: n-Butyl acetate	RG 84	
Articles L 461-1 to L 461-7	5	RG 4bis, RG 84	
	2-butoxyethyl acetate	RG 84	
	5	C 4bia BC 94	
		RG 4bis, RG 84 RG 66	
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities whic medical surveillance: not applicable		
Germany			
Storage class (TRGS 510)	: 3		
Hazardous incident ordinal			
This product is controlled und Danger criteria	er the Germany Hazardous Incident Ordinance.		
		Deferrere	
Category		Reference number	
P5c		1.2.5.3	
Hazard class for water	: 2		
Technical instruction on	: TA-Luft Number 5.2.5: 53%		
air quality control	TA-Luft Class I - Number 5.2.5: 2.7%		
ΑΟΧ	: The product contains organically bound halogens and ca value in waste water.	n contribute to the AOX	
Italy			

D.Lgs. 152/06 <u>Netherlands</u>	: Not dete	rmined.			
Ministry of Social Affa reprotoxic substances		nent (SZW) - Ca	rcinogenic substan	ces and processe	s, mutagenic or
Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene tolueen silica, crystalline (NL- carcinogen specific)	- - Listed			Development 2 Development 2 -	- - -
Water Discharge Polic (ABM)	environn	nent (carcinogeni	ubstances with haza city/ mutagenicity/ re econtamination effort	protoxicity/ bioacum	
<u>Norway</u> <u>Sweden</u>					
Flammable liquid clas (SRVFS 2005:10)	<b>s</b> : 2a				
Switzerland		(w), 26 40/			
VOC content nternational regulation	: VOC (w/	W). 30.4%			
hemical Weapon Con		edules I, II & III (	Chemicals		
Not listed.					
<u>Iontreal Protocol</u>					
Not listed.					
itockholm Convention Not listed.	<u>on Persistent O</u>	rganic Pollutant	<u>'S</u>		
Rotterdam Convention Not listed.	on Prior Informe	ed Consent (PIC	1		
JNECE Aarhus Protoco	ol on POPs and I	<u>Heavy Metals</u>			

## **SECTION 16: Other information**

required.

assessment

Indicates information	that has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to deriv	ve the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Procedure used to derive the classification according to Regulation (EC) No. 12/2/2008 [CLP/GHS

SECTION 16: Other information		
	Classification	Justification
Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336		On basis of test data Calculation method Calculation method
Full text of	abbreviated H statements	
H225	Highly flammable liquid and vapour.	

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of revision	: 03/01/2024

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Version	: 1

#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.