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

SAFETY DATA SHEET



ALPOCRYL EISENGLIMMER 5381-30

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

1.1 Product identifier Product name

: ALPOCRYL EISENGLIMMER 5381-30

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d 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 Hazard statements

- : Danger
- : H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.

Precautionary statements

: 01/08/2024 Date of previous issue

SECTION 2: Hazards identification

Prevention	:	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	1	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: n-Butyl acetate; Toluene; Fatty acids, C14-18 and C16-18-unsatd., maleated and Methyl methacrylate
Supplemental label elements	:	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	1	None known.

not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	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	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

SECTION 3: Compo	osition/informat	ion on in	gredients		
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]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

SECTION 4: First aid measures

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.
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

e contact	 Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

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

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

Hazards from the	1	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion
substance or mixture		hazard. In a fire or if heated, a pressure increase will occur and the container may
		burst, with the risk of a subsequent explosion.

SECTION 5: Firefighting measures		
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) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

SECTION 7: Handling and storage

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

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

Seveso Directive - Reporting thresholds

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

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)]	
	CEIL: 480 mg/m ³ 15 minutes.	
	CEIL: 100 ppm 15 minutes.	
	TWA: 241 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).	
	TWA: 200 ppm 8 hours.	
	TWA: 734 mg/m ³ 8 hours.	
	PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes.	
	PEAK: 400 ppm, 4 times per shift, 15 minutes.	
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.	
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ALPOCRYL EISENGLIMMER 5381-30	Label No :74119	

SECTION 8: Exposure controls/personal protection TWA: 50 ppm 8 hours. TWA: 190 ma/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m³, 4 times per shift, 15 minutes. **Xylene** Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m³, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m³ 8 hours. Ethylbenzene Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 440 mg/m³ 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes. CEIL: 880 ma/m³. 8 times per shift. 5 minutes. Methyl methacrylate Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser. TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 420 mg/m³, 8 times per shift, 5 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/m³ 8 hours. CEIL: 0.2 ppm, 8 times per shift, 5 minutes. CEIL: 0.8 mg/m³, 8 times per shift, 5 minutes. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] n-Butyl acetate STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Limit values (Belgium, 5/2021). Ethyl acetate TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. Toluene TWA: 20 ppm 8 hours. TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. **Xylene** Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Ethylbenzene Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 87 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 551 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). Methyl methacrylate TWA: 50 ppm 8 hours. TWA: 208 mg/m³ 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Maleic anhydride Limit values (Belgium, 5/2021). TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol TWA: 0.01 mg/m³ 8 hours. Form: vapour and aerosol

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	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 ³ 8 hours.
		Limit value 15 min: 723 mg/m ³ 15 minutes.
		Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.
	Ethyl acetate	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
		Limit value 8 hours: 734 mg/m ³ 8 hours.
		Limit value 15 min: 400 ppm 15 minutes.
		Limit value 15 min: 1468 mg/m ³ 15 minutes.
		Limit value 8 hours: 200 ppm 8 hours.
	Toluene	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
		through skin.
		Limit value 15 min: 384 mg/m ³ 15 minutes.
		Limit value 8 hours: 192 mg/m ³ 8 hours.
		Limit value 15 min: 100 ppm 15 minutes.
		Limit value 8 hours: 50 ppm 8 hours.
	Xylene	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
		(mixture of isomers), pure] Absorbed through skin.
		Limit value 8 hours: 221 mg/m ³ 8 hours.
		Limit value 15 min: 442 mg/m ³ 15 minutes.
		Limit value 15 min: 100 ppm 15 minutes.
		Limit value 8 hours: 50 ppm 8 hours.
	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 ³ 8 hours.
		Limit value 5 hours. 435 hig/m ³ 15 minutes.
	Methyl methacrylate	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
		Limit value 8 hours: 50 ppm 8 hours.
		Limit value 15 min: 100 ppm 15 minutes.
	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 ³ 8 hours.
	n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021).
		STELV: 723 mg/m ³ 15 minutes.
		STELV: 150 ppm 15 minutes.
		ELV: 241 mg/m ³ 8 hours.
		ELV: 50 ppm 8 hours.
	Ethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021).
		STELV: 400 ppm 15 minutes.
		ELV: 200 ppm 8 hours.
		STELV: 1468 mg/m ³ 15 minutes.
		ELV: 734 mg/m ³ 8 hours.
	Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). Absorbed through skin.
		STELV: 384 mg/m ³ 15 minutes.
		STELV: 100 ppm 15 minutes.
		ELV: 192 mg/m ³ 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 ³ 15 minutes.
		STELV: 100 ppm 15 minutes. ELV: 221 mg/m ³ 8 hours.
		ELV: 221 mg/m ² 8 hours.
	Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/
-		
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	STELV (Croatia 1/2021) Absorbed through akin
	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 884 mg/m ³ 15 minutes.
	STELV: 200 ppm 15 minutes.
	ELV: 442 mg/m ³ 8 hours.
	ELV: 100 ppm 8 hours.
Methyl methacrylate	Ministry of Economy, Labour and Entrepreneurship ELV/
nourly moundol yield	STELV (Croatia, 1/2021). Absorbed through skin. Skin
	sensitiser.
	STELV: 100 ppm 15 minutes.
	ELV: 50 ppm 8 hours.
/aleic anhydride	Ministry of Economy, Labour and Entrepreneurship ELV/
,	STELV (Croatia, 1/2021). Skin sensitiser. Inhalation sensitise
	STELV: 0.2 ppm 15 minutes.
	ELV: 0.41 mg/m ³ 8 hours.
	STELV: 0.8 mg/m ³ 15 minutes.
	ELV: 0.1 ppm 8 hours.
-Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
thyl acetate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
oluene	Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
(dana	
(ylene	Department of labour inspection (Cyprus, 7/2021). [Xylene,
	mixed isomers] Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
Thulbonzono	Department of labour inspection (Cyprus, 7/2021). Absorbed
Ethylbenzene	
	through skin.
	STEL: 884 mg/m ³ 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
Methyl methacrylate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
y	Republic, 10/2022).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 149.661 ppm 15 minutes.
	TWA: 49.887 ppm 8 hours.
Ethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
5	Republic, 10/2022).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 191.1 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 245.7 ppm 15 minutes.
Foluene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50.112 ppm 8 hours.

	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100.224 ppm 15 minutes.
Kylene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [xylene, technical mixture of isomers and
	all isomers] Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes.
	STEL: 90.8 ppm 15 minutes.
thylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m ³ 15 minutes.
	STEL: 113.5 ppm 15 minutes.
lethyl methacrylate	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Skin sensitiser.
	TWA: 50 mg/m ³ 8 hours.
	TWA: 12 ppm 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
lalaia anhudrida	STEL: 36 ppm 15 minutes.
laleic anhydride	Government regulation of Czech Republic PEL/NPK-P (Czec Republic, 10/2022). Skin sensitiser.
	TWA: 1 mg/m ³ 8 hours.
	TWA: 0.245 ppm 8 hours.
	STEL: 2 mg/m ³ 15 minutes.
	STEL: 0.49 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
thyl acetate	Working Environment Authority (Denmark, 6/2022).
	TWA: 150 ppm 8 hours.
	TWA: 540 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
oluene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m ³ 8 hours.
	STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.
ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes
ylelle	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 109 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
lethyl methacrylate	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 102 mg/m ³ 8 hours.
Antoin an braileid.	STEL: 100 ppm 15 minutes.
laleic anhydride	Working Environment Authority (Denmark, 6/2022).
	TWA: 0.1 ppm 8 hours.
	TWA: 0.4 mg/m³ 8 hours.

	STEL: 0.8 mg/m ³ 15 minutes. STEL: 0.2 ppm 15 minutes.
-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
thyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 500 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 1100 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
oluene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes.
	STEL: 304 mg/m 15 minutes.
ylene	Occupational exposure limits, Regulation No. 293 (Estonia,
yiene	12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m ³ 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
thylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia,
-	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
lethyl methacrylate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
laleic anhydride	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Skin sensitiser.
	TWA: 1.2 mg/m ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
thyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
-	occupational exposure limit values
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
oluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes.
	STEL: 384 mg/m ^o 15 minutes. STEL: 100 ppm 15 minutes.
ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupationa
	exposure limit values
	TWA: 50 ppm 8 hours.

	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
-	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
,	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
thyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 730 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1470 mg/m ³ 15 minutes.
oluene	Institute of Occupational Health, Ministry of Social Affairs
oldene	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 380 mg/m ³ 15 minutes.
ylene	Institute of Occupational Health, Ministry of Social Affairs
yierie	(Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m ³ 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
thylbenzene	STEL: 100 ppm 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 ³ 8 hours.
	STEL: 200 ppm 15 minutes.
lethy durath condition	STEL: 880 mg/m ³ 15 minutes.
lethyl methacrylate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 10 ppm 8 hours.
	TWA: 42 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 210 mg/m ³ 15 minutes.
1aleic anhydride	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 0.1 ppm 8 hours.
	TWA: 0.41 mg/m ³ 8 hours.
	CEIL: 0.2 ppm
	CEIL: 0.81 mg/m ³
-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulate
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
thyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulate
	limit values (article R. 4412-149 of the Labor Code)

ECTION 8: Exposure cor	ntrols/personal protection
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
Teluene	STEL: 400 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 ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Xylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Methyl methacrylate	Ministry of Labor (France, 10/2022). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 205 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 410 mg/m ³ 15 minutes.
Maleic anhydride	Ministry of Labor (France, 10/2022). Sensitization potential.
	Notes: Permissible limit values (circulars) STEL: 1 mg/m ³ 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 ³ 8 hours.
	PEAK: 960 mg/m³, 4 times per shift, 15 minutes.
	TRGS 900 OEL (Germany, 6/2022).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 62 ppm 8 hours.
	PEAK: 600 mg/m ³ 15 minutes.
	PEAK: 124 ppm 15 minutes.
Ethyl acetate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 730 mg/m ³ 8 hours. PEAK: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 750 mg/m ³ 8 hours.
	PEAK: 1500 mg/m ³ , 4 times per shift, 15 minutes.
Toluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
Toluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m ³ 8 hours.
Toluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m ³ 8 hours. PEAK: 380 mg/m ³ 15 minutes.
Foluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m ³ 8 hours. PEAK: 380 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours.
Toluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m ³ 8 hours. PEAK: 380 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes.
Toluene	 TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through
Toluene	 TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin.
Toluene	 TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 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.
Foluene	 TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin.

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SECTION 8: Exposure controls/personal protection			
	PEAK: 380 mg/m³, 4 times per shift, 15 minutes.		
Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through		
	skin. TWA: 220 mg/m ³ θ hours		
	TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 15 minutes.		
	TWA: 50 ppm 8 hours.		
	PEAK: 100 ppm 15 minutes.		
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]		
	Absorbed through skin.		
	TWA: 50 ppm 8 hours.		
	PEAK: 100 ppm, 4 times per shift, 15 minutes.		
	TWA: 220 mg/m ³ 8 hours.		
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.		
Ethylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.		
	TWA: 88 mg/m ³ 8 hours.		
	PEAK: 176 mg/m ³ 15 minutes.		
	TWA: 20 ppm 8 hours.		
	PEAK: 40 ppm 15 minutes.		
	DFG MAC-values list (Germany, 7/2022). Absorbed through		
	skin. DEAK: 40 ppm 4 times per shift 15 minutes		
	PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.		
	TWA: 88 mg/m ³ 8 hours.		
	TWA: 20 ppm 8 hours.		
Methyl methacrylate	TRGS 900 OEL (Germany, 6/2022).		
in our years and years	TWA: 210 mg/m ³ 8 hours.		
	PEAK: 420 mg/m ³ 15 minutes.		
	TWA: 50 ppm 8 hours.		
	PEAK: 100 ppm 15 minutes.		
	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.		
	TWA: 50 ml/m ³ 8 hours.		
	PEAK: 100 ppm, 4 times per shift, 15 minutes.		
	TWA: 210 mg/m ³ 8 hours.		
	PEAK: 420 mg/m ³ , 4 times per shift, 15 minutes.		
Malaia anti-uduida	PEAK: 100 ml/m ³ , 4 times per shift, 15 minutes.		
Maleic anhydride	TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation		
	sensitiser.		
	TWA: 0.081 mg/m³ 8 hours. CEIL: 0.2025 mg/m³		
	TWA: 0.02 ppm 8 hours.		
	CEIL: 0.05 ppm		
	PEAK: 0.081 mg/m ³ 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 ³		
	TWA: 0.081 mg/m ³ 8 hours.		
	CEIL: 0.2 mg/m ³		
	PEAK: 0.081 mg/m ³ , 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 ³ 8 hours.		
	STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes.		
Ethyl acetate	Presidential Decree 307/1986: Occupational exposure limit		
	values (Greece, 9/2021).		
	TWA: 200 ppm 8 hours.		
	TWA: 734 mg/m ³ 8 hours.		
	STEL: 1468 mg/m ³ 15 minutes.		
	STEL: 400 ppm 15 minutes.		
Toluene	Presidential Decree 307/1986: Occupational exposure limit		
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SECTION 8: Exposure controls/personal protection values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit **Xylene** values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Methyl methacrylate values (Greece, 9/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Presidential Decree 307/1986: Occupational exposure limit Maleic anhydride values (Greece, 9/2021). TWA: 0.25 ppm 8 hours. TWA: 1 mg/m³ 8 hours. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 734 mg/m³ 8 hours. PEAK: 1468 mg/m³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Toluene through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m³ 8 hours. PEAK: 384 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours. PEAK: 442 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m³ 8 hours. PEAK: 884 mg/m³ 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours. Methyl methacrylate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 208 mg/m³ 8 hours. PEAK: 415 mg/m³ 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.

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	TWA: 0.08 mg/m³ 8 hours. PEAK: 0.08 mg/m³ 15 minutes.
	PEAK: 0.2 ppm 15 minutes.
	TWA: 0.2 ppm 8 hours.
-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butyl acetate, all isomers]
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
11 - 1	STEL: 150 ppm 15 minutes.
thyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	TWA: 540 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
oluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
oldene	Absorbed through skin.
	STEL: 188 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
ylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[xylene, all isomers] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 109 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
thylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
Inyidenzene	Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
lethyl methacrylate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin. Skin sensitiser.
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ialeic anhydride	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Skin sensitiser.
	TWA: 0.4 mg/m ³ 8 hours. TWA: 0.1 ppm 8 hours.
Putul ecototo	
-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
thyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
,	Exposure Limit Values
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
	OELV-15min: 1468 mg/m ³ 15 minutes.
	OELV-8hr: 734 mg/m ³ 8 hours.
oluene	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 ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m ³ 15 minutes.
ylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
Jiono	through skin. Notes: EU derived Occupational Exposure Lin
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.

Ethylbenzene NAOSH (Ireland, 5/2021). Absorbed through skin. Note	s: EU
derived Occupational Exposure Limit Values	
OELV-8hr: 100 ppm 8 hours.	
OELV-8hr: 442 mg/m ³ 8 hours.	
OELV-15min: 200 ppm 15 minutes.	
OELV-15min: 884 mg/m ³ 15 minutes.	
Methyl methacrylate NAOSH (Ireland, 5/2021). Sensitization potential. Notes	s: EU
derived Occupational Exposure Limit Values	
OELV-8hr: 50 ppm 8 hours.	
OELV-15min: 100 ppm 15 minutes.	
Advisory Occupational Exposure Limit Values (OELVs	
OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction	
Vapour note is used when a material exerts sufficient vapo	
pressure such that it may be present in both particle and va	apour
phases.	
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 ³ 15 minutes.	
TWA: 241 mg/m ³ 8 hours.	
TWA: 50 ppm 8 hours.	
Ethyl acetate Legislative Decree No. 819/2008. Title IX. Protection fro	
chemical agents, carcinogens and mutagens (Italy, 6/2	020).
Short Term: 400 ppm 15 minutes.	
Short Term: 1468 mg/m ³ 15 minutes.	
8 hours: 200 ppm 8 hours.	
8 hours: 734 mg/m ³ 8 hours.	
Toluene Legislative Decree No. 819/2008. Title IX. Protection fro	m
chemical agents, carcinogens and mutagens (Italy, 6/2	
Absorbed through skin.	,-
8 hours: 50 ppm 8 hours.	
8 hours: 192 mg/m ³ 8 hours.	
	m
Xylene Legislative Decree No. 819/2008. Title IX. Protection fro	
chemical agents, carcinogens and mutagens (Italy, 6/2	
[Xylenes, mixed isomers, pure] Absorbed through skin	-
8 hours: 50 ppm 8 hours.	
8 hours: 221 mg/m ³ 8 hours.	
Short Term: 100 ppm 15 minutes.	
Short Term: 442 mg/m ³ 15 minutes.	
Ethylbenzene Legislative Decree No. 819/2008. Title IX. Protection from	m
chemical agents, carcinogens and mutagens (Italy, 6/2	020).
Absorbed through skin.	
8 hours: 100 ppm 8 hours.	
8 hours: 442 mg/m ³ 8 hours.	
Short Term: 200 ppm 15 minutes.	
Short Term: 884 mg/m ³ 15 minutes.	
Methyl methacrylate Legislative Decree No. 819/2008. Title IX. Protection fro	m
chemical agents, carcinogens and mutagens (Italy, 6/2	020).
Short Term: 100 ppm 15 minutes.	
8 hours: 50 ppm 8 hours.	
n-Butyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2	2021).
TWA: 241 mg/m ³ 8 hours.	-
STEL: 150 ppm 15 minutes.	
STEL: 723 mg/m ³ 15 minutes.	
TWA: 50 ppm 8 hours.	
Ethyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2	021)
	.021).
TWA: 200 mg/m ³ 8 hours.	
STEL: 400 ppm 15 minutes.	
STEL: 1468 mg/m ³ 15 minutes.	
TWA: 54 ppm 8 hours.	
Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2	2021).
Absorbed through skin.	

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	TWA: 50 mg/m ³ 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.
Kylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
(jielie	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	STEL: 442 mg/m ³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
Lutyibenzene	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
Methyl methacrylate	STEL: 884 mg/m ³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 10 mg/m ³ 8 hours.
Maleic anhydride	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 1 mg/m ³ 8 hours.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes.
	STEL: 723 mg/m ^o 15 minutes. STEL: 150 ppm 15 minutes.
Ethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
-	TWA: 500 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	CEIL: 1100 mg/m ³
Toluene	CEIL: 300 ppm Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
Xylene	STEL: 100 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
Ayle IC	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m^3 15 minutes.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
Mathy I math a cm data	STEL: 200 ppm 15 minutes.
Methyl methacrylate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 416 mg/m ³ 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 ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
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n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Ethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
Toluene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
Xylene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
, tylono	(Luxembourg, 3/2021). [xylenes, mixed isomers, pure]
	Absorbed through skin.
	•
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 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 ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Methyl methacrylate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 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 ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
Xylene	Absorbed through skin. Notes: list of indicative occupational
	exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
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	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Methyl methacrylate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 241 mg/m ³ 8 hours.
	STEL,15-min: 723 mg/m ³ 15 minutes.
	STEL,15-min: 150 ppm 15 minutes.
thul a actata	OEL, 8-h TWA: 50 ppm 8 hours.
Ethyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). STEL,15-min: 1468 mg/m³ 15 minutes.
	OEL, 8-h TWA: 734 mg/m ³ 8 hours.
	STEL,15-min: 400 ppm 15 minutes.
	OEL, 8-h TWA: 200 ppm 8 hours.
oluene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 150 mg/m³ 8 hours.
	STEL,15-min: 384 mg/m ³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes.
	OEL, 8-h TWA: 39 ppm 8 hours.
ylene	Ministry of Social Affairs and Employment, Legal limit value
	(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed
	through skin.
	OEL, 8-h TWA: 210 mg/m ³ 8 hours.
	STEL,15-min: 442 mg/m ³ 15 minutes. STEL,15-min: 100 ppm 15 minutes.
	OEL, 8-h TWA: 47.5 ppm 8 hours.
thylbenzene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). Absorbed through skin.
	OEL, 8-h TWA: 215 mg/m ³ 8 hours.
	STEL,15-min: 430 mg/m³ 15 minutes.
	STEL,15-min: 97.3 ppm 15 minutes.
	OEL, 8-h TWA: 48.6 ppm 8 hours.
lethyl methacrylate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 205 mg/m ³ 8 hours.
	STEL,15-min: 410 mg/m ³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.
Dutid a satata	
-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
thyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
,	limit value
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
oluene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours. TWA: 94 mg/m ³ 8 hours.
(ylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers
yiono	Absorbed through skin. Notes: indicative limit value

SECTION 8: Exposure controls/personal protection TWA: 25 ppm 8 hours. TWA: 108 ma/m³ 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/m³ 8 hours. Methyl methacrylate FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 100 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. STEL: 400 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Maleic anhydride FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. TWA: 0.2 ppm 8 hours. TWA: 0.8 mg/m³ 8 hours. n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes. Ethyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. Toluene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. **Xylene** Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Ethylbenzene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 200 mg/m³ 8 hours. STEL: 400 mg/m³ 15 minutes. Methyl methacrylate Regulation of the Minister of Family, Labor and Social Policy

of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 100 mg/m³ 8 hours.

Maleic anhydride

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STEL: 300 mg/m³ 15 minutes.

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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,

SECTION 8: Exposure controls/personal protection 2/2021). Absorbed through skin. TWA: 0.5 mg/m³ 8 hours. STEL: 1 mg/m³ 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). n-Butyl acetate TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. Ethyl acetate Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours. Toluene Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin. TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] **Xylene** TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. Ethylbenzene Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Skin Methyl methacrylate sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). Skin Maleic anhydride sensitiser. TWA: 0.01 mg/m³ 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/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes. Ethyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 734 mg/m³ 8 hours. VLA: 200 ppm 8 hours. Short term: 1468 ma/m³ 15 minutes. Short term: 400 ppm 15 minutes. Toluene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. **Xylene** HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Ethylbenzene additions (Romania, 3/2021). Absorbed through skin. VLA: 442 mg/m³ 8 hours. VLA: 100 ppm 8 hours. Short term: 884 mg/m³ 15 minutes. Short term: 200 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Methyl methacrylate additions (Romania, 3/2021). VLA: 205 mg/m³ 8 hours. Short term: 410 mg/m³ 15 minutes. VLA: 50 ppm 8 hours. Short term: 100 ppm 15 minutes. Maleic anhydride HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1 ma/m³ 8 hours. VLA: 0.25 ppm 8 hours. 22/47

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	Short term: 3 mg/m ³ 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 ³ , (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
Ethyl acetate	STEL: 150 ppm, (Butyl acetates) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
oluene	STEL: 400 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
(ylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
·,····	[xylene, mixed isomers] Absorbed through skin.
	TWA: 221 mg/m ³ , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes.
Ethylbenzene	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	STEL: 200 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Sk
	sensitiser.
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
laleic anhydride	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Sk
	sensitiser. TWA: 0.41 mg/m³ 8 hours.
	TWA: 0.1 ppm 8 hours.
-Butyl acetate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes.
	KTV: 150 ppm, 4 times per shift, 15 minutes.
thyl acetate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 734 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
	KTV: 1468 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 400 ppm, 4 times per shift, 15 minutes.
oluene	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin. TWA: 192 mg/m ³ 8 hours.
	TWA: 192 mg/m² o nours. TWA: 50 ppm 8 hours.
	KTV: 384 mg/m ³ , 4 times per shift, 15 minutes.
<i>.</i> .	KTV: 100 ppm, 4 times per shift, 15 minutes.
(ylene	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.

	KTV: 442 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021)
	Absorbed through skin.
	TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
	KTV: 884 mg/m³, 4 times per shift, 15 minutes.
	KTV: 200 ppm, 4 times per shift, 15 minutes.
/lethyl methacrylate	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021
	TWA: 210 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 420 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
1aleic anhydride	Regulation on protection of workers from the risks related
	exposure to chemical substances at work (Slovenia, 5/2021
	TWA: 0.41 mg/m ³ 8 hours. TWA: 0.1 ppm 8 hours.
	KTV: 0.41 mg/m³, 4 times per shift, 15 minutes.
	KTV: 0.1 ppm, 4 times per shift, 15 minutes.
-Butyl acetate	National institute of occupational safety and health (Spain,
-Dutyl acetate	4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
thyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
oluene	STEL: 400 ppm 15 minutes. National institute of occupational safety and health (Spain,
oldene	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
(ylene	National institute of occupational safety and health (Spain,
	4/2022). [Xylene, mixture of isomers] Absorbed through ski
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
thylbenzene	STEL: 442 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	National institute of occupational safety and health (Spain,
	4/2022). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 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/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 550 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1100 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Toluene 9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, **Xylene** 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Ethylbenzene 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Methyl methacrylate 9/2021). Skin sensitiser. TWA: 50 ppm 8 hours. TWA: 200 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 400 mg/m³ 15 minutes. Maleic anhydride Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser. TWA: 0.05 ppm 8 hours. TWA: 0.2 mg/m³ 8 hours. STEL: 0.1 ppm 15 minutes. STEL: 0.4 mg/m³ 15 minutes. n-Butyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes. Ethyl acetate SUVA (Switzerland, 1/2023). STEL: 400 ppm 15 minutes. STEL: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours. 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/m³ 15 minutes. **Xylene** SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin.

STEL: 440 mg/m³ 15 minutes. SUVA (Switzerland, 1/2023). Absorbed through skin. Ethylbenzene Date of issue/Date of revision : 01/08/2024

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TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

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SECTION 8: Exposure controls/personal protection TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 220 mg/m³ 15 minutes. Methyl methacrylate SUVA (Switzerland, 1/2023). Skin sensitiser. TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 420 mg/m³ 15 minutes. Maleic anhydride SUVA (Switzerland, 1/2023). Skin sensitiser. TWA: 0.1 ppm 8 hours. Form: vapour and aerosols TWA: 0.4 mg/m³ 8 hours. Form: vapour and aerosols STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols STEL: 0.4 mg/m³ 15 minutes. Form: vapour and aerosols n-Butyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Ethyl acetate STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. TWA: 734 mg/m³ 8 hours. Toluene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. **Xylene** EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Ethylbenzene through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours. Methyl methacrylate EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Maleic anhydride EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser. STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m³ 8 hours. cumene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 250 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed benzene through skin. TWA: 1 ppm 8 hours. TWA: 3.25 mg/m³ 8 hours.

Biological exposure indices

SECTION 8: Exposure controls/personal protection **Product/ingredient name Exposure indices** VGU BEI (Austria, 9/2020) Toluene BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /µl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one vear. BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year. **Xylene** VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year. No exposure indices known. Toluene 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]. Sampling time: after the end of the exposure or the end of the work shift. 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. 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. **Xylene** Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.

the work shift.

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

		BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
	Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)
		BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.
		BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during
		exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working
		week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at
		the end of the work shift and at the end of the working week.
	No exposure indices known.	
	Toluene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.
	Xylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
	Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
	No exposure indices known.	
	No exposure indices known.	
	No exposure indices known.	
	Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.
	Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
	Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after
		work shift at the end of the working week or exposure period.
	No exposure indices known.	
-		
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SECTION 8: Exposure of the section o	controls/personal protection
Toluene	DFG BEI-values list (Germany, 7/2022) Notes: danger from
	percutaneous absorption (see p. 211 and p. 228). BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure.
	BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.
	BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.
	TRGS 903 - BEI Values (Germany, 2/2022) BEI: 600 μg/l, toluene [in whole blood]. Sampling time: immediately after exposure.
	BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts. BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or
	end of shift.
Xylene	DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228).
	BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.
Ethylbenzene	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).
	BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
No exposure indices known.	
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)
	BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: at
	the end of the shift.
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
	BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.
No exposure indices known.	
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.
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Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure
	ceases.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
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: end of the shift.
No exposure indices known.	
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. 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	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
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	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.
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	Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 μmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.08 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1.3399 μmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. 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. 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: 2401 mg/l, o-cresol [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. BLV: 600 μg/l, toluene [in blood]. 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; long-term exposure: after several work shifts.
	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: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
	Ethylbenzene	 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 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. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
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			BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
	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		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.
	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		National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.
	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, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
	No exposure indices known.		
	Toluene		SUVA (Switzerland, 1/2023)
			 BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long- term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.
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Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene	SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
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.

 Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Inhalation	367 mg/m ³	General population	Systemic
	DNEL	Short term	734 mg/m ³	General	Local

		Inhalation		population		
	DNEL	Short term	734 mg/m ³	General	Systemic	
		Inhalation	, C	population	-	
	DNEL	Long term	734 mg/m ³	Workers	Local	
		Inhalation	, C			
	DNEL	Long term	734 mg/m ³	Workers	Systemic	
		Inhalation	Ū		,	
	DNEL	Short term	1468 mg/	Workers	Local	
		Inhalation	m³			
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic	
Toluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term	56.5 mg/m ³	General	Local	
		Inhalation		population	Our termin	
	DNEL	Long term	56.5 mg/m ³		Systemic	
		Inhalation	100 1 3	population		
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local	
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	226 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Short term	226 mg/m ³	General	Local	
		Inhalation		population		
	DNEL	Short term	226 mg/m ³	General	Systemic	
		Inhalation		population		
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic	
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local	
		Inhalation	eereg,	population		
	DNEL	Short term	260 mg/m ³	General	Local	
	0.122	Inhalation	200 mg/m	population	Loodi	
	DNEL	Short term	260 mg/m ³	General	Systemic	
		Inhalation	,	population	- ,	
	DNEL	Long term	221 mg/m ³	Workers	Local	
		Inhalation	· · · · · · ·			
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General	Systemic	
	DNEL	Long torm		population General	Svotomio	
	DINEL	Long term Inhalation	65.3 mg/m ³	population	Systemic	
			105 mg/kg		Sustamia	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term	221 mg/m ³	Workers	Systemic	
		Inhalation				
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic	
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	15 mg/m ³	General	Systemic	
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic	
	DNEL	Short term	bw/day 293 mg/m³	Workers	Local	
	1	Inhalation	I	1	I	

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	DMEL	Long term	442 mg/m ³	Workers	Local
		Inhalation	_		
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
Fatty acids, C14-18 and C16-18-unsatd., maleated	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	Systemic
o to-to-unsalu., malealeu	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 3 mg/kg bw/day	population Workers	Systemic
Methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m ³	General population	Local
	DNEL	Short term Inhalation	416 mg/m ³	Workers	Local
	DNEL	Short term Dermal	1.5 mg/cm ²	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	General population	Local
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	104 mg/m ³	General population	Local
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	348.4 mg/ m³	Workers	Systemic
Maleic anhydride	DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.08 mg/m ³	General population	Local
	DNEL	Short term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.1 mg/kg bw/day	General population	Systemic
	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

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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 low explosive limits. Use explosion-proof ventilation equipment.	
Individual protection measu		
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 propriate techniques should be used to remove potentially contaminated c Contaminated work clothing should not be allowed out of the workplace. Wa contaminated clothing before reusing. Ensure that eyewash stations and saf showers are close to the workstation location.	period. dothing. ish
Eye/face protection	Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, gases or dusts. If contact is possible, the following protection should be worr unless the assessment indicates a higher degree of protection: chemical spl goggles.	mists, n,
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard be worn at all times when handling chemical products if a risk assessment in this is necessary. Considering the parameters specified by the glove manufacheck during use that the gloves are still retaining their protective properties. 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 several substances, the protection time of the gloves cannot be accurately estimated.	idicates acturer, It
	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 being performed and the risks involved and should be approved by a special before handling this product. When there is a risk of ignition from static elect wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Re European Standard EN 1149 for further information on material and design requirements and test methods.	ist tricity,
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and shou approved by a specialist before handling this product.	ld be
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meet appropriate standard or certification. Respirators must be used according to respiratory protection program to ensure proper fitting, training, and other imp aspects of use.	а
	Filter type: A	
Environmental experies	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 legisla In some cases, fume scrubbers, filters or engineering modifications to the pro equipment will be necessary to reduce emissions to acceptable levels.	tion.

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

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Odour threshold	: Not available.			
Odour	: Slight			
Colour	: Various			
Physical state	: Liquid.			
Appearance				

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: No previous validation

SECTION 9: Physical and chemical properties

Melting point/freezing point: Not available.Initial boiling point and:boiling range

Ingredient name	°C	°F	Method	
Ethyl acetate	77.1	170.8		
Toluene	110.6	231.1		

гіаншарінцу	. NOL AVAIIADIE.
Lower and upper explosion limit	: Lower: 0.8% (xylene) Upper: 11.5% (ethyl acetate)

2

2

2

Flash point

: Closed cup: -1°C (30.2°F)

Auto-ignition temperature

Ingredient name		°C	°F	Method
n-Butyl acetate		415	779	EU A.15
Ethyl acetate		426.67	800	
Decomposition temperature	: Not ava	ilable.		
pH	: Not app	licable.		

Viscosity : Not available.

Solubility(ies)

Not available.

Solubility in water

: Not available.

Partition coefficient: n-octanol/	1	Not applicable.
water		

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Ethyl acetate	81.59163	10.9					
Toluene	23.17	3.1					

Relative density	: Not available.
Density	: 1.3 g/cm ³
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.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
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SECTION 10: Stability and reactivity

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	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
-	mists		_	
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

Acute toxicity estimates

Route	ATE value
Dermal	20830.73 mg/kg
Inhalation (vapours)	164.51 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	
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	-
	Clvin Madavata invitant	Dabbit		mg	
Vulono	Skin - Moderate irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant Eyes - Severe irritant	Rabbit Rabbit	-	87 mg 24 hours 5	-
	Eyes - Severe initant	Rabbit	-		-
	Skin - Mild irritant	Rat		mg 8 hours 60 uL	_
	Skin - Moderate irritant	Rabbit		100 %	_
	Skin - Moderate irritant	Rabbit	_	24 hours 500	-
		Rubbit		mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
,	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Causes skin irritation.	•			•

Sensitisation

SECTION 11: Toxicological information

Conclusion/Summary	: May cause an allergic skin reaction.
Mutagenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Suspected of damaging the unborn child.
Specific target organ toxic	ity (cingle expecture)

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

SECTION 11: Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
Delayed and immediate effect	s as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>cts</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently expose to very low levels.	d
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: Suspected of damaging the unborn child.	

11.2 Information on other hazards

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11.2.1 Endocrine disrupting properties

- Not available.
- 11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
2	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas -	32 days
		Embryo	5
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> <i>pseudolimnaeus</i> - 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
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SECTION 12: Ecological information				
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours	
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.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	Low
Maleic anhydride	-2.78	-	Low

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

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	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, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)				
14.3 Transport hazard class(es)	3	3	3	3				
14.4 Packing group	11	II	11	11				
14.5 Environmental hazards	No.	Yes.	No.	No.				
Additional information ADR/RID : Special provisions 640 (C) Tunnel code (D/E) ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)								
14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.								
14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO instruments								

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
ALPOCRYL EISENGLIMMER 5381-30 Toluene	≥90 <10	3 48
Labelling :		

Labelling

Other EU regulations

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

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SECTION 15: Regulatory information : Not listed Industrial emissions (integrated pollution prevention and control) -Water **Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. **Seveso Directive** This product is controlled under the Seveso Directive. **Danger criteria** Category P5c **National regulations Austria VbF class** : AI Very dangerous flammable liquid. Limitation of the use of : Permitted. organic solvents **Czech Republic** Storage code : 1 **Denmark Danish fire class** : 1-1 Executive Order No. 1795/2015 Annex I Section B Ingredient name Annex I Section A Ethylbenzene Listed MAL-code : 4-3 **Protection based on MAL** 1 According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed. MAL-code: 4-3 **Application:** When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Air-supplied half mask and eye protection must be worn. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

SECTION 15: Regulatory information

SECTION 15: Regulat	tO	ry information	
		- Air-supplied half mask, coveralls and eye protection	must be worn.
		During downtimes, cleaning and repair in closed facilit there is a risk of contact with wet paint or organic solve	
		- Air-supplied full mask and coveralls must be worn.	
		When spraying in existing* spray booths, if the operate	or is outside the spray zone.
		- Air-supplied full mask, arm protectors and apron mus	st be worn.
		During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is work	
		- Air-supplied full mask must be worn.	
		During all spraying where atomisation occurs in cabins operator is inside the spray zone and during spraying or booth.	
		- Air-supplied full mask, coveralls and hood must be w	/orn.
		Drying: Items for drying/drying ovens that are tempor rack trolleys, etc, must be equipped with a mechanica fumes from wet items from passing through workers' i	l exhaust system to prevent
		Polishing: When polishing treated surfaces, a mask When machine grinding, eye protection must be worn.	
		Caution The regulations contain other stipulations in	addition to the above.
		*See Regulations.	
Low-boiling liquids	:	This product contains low-boiling point liquids. Any res should be air-fed.	piratory protective equipment
Restrictions on use	:	Not to be used by professional users below 18 years of Working Environment Authorities Executive Order reg	
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substate by Danish working environment legislation on cancer r	
<u>Finland</u>			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7	:	n-Butyl acetate Ethyl acetate Toluene Xylene Ethylbenzene Methyl methacrylate	RG 84 RG 84 RG 4bis, RG 84 RG 4bis, RG 84 RG 84 RG 82
Reinforced medical	:	Maleic anhydride Act of July 11, 1977 determining the list of activities wh	RG 66 hich require reinforced
surveillance		medical surveillance: not applicable	
<u>Germany</u> Storegy close (TDCS 540)		2	
Storage class (TRGS 510)			
Hazardous incident ordina This product is controlled uno Danger criteria		<u>e</u> • the Germany Hazardous Incident Ordinance.	

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SECTION 15: Regulatory information

Category	Reference number
P5c	1.2.5.3

Hazard class for water	1	3
Technical instruction on air quality control	-	TA-Luft Number 5.2.5: 51.7% TA-Luft Class I - Number 5.2.5: 9.1%
<u>Italy</u>		
D.Lgs. 152/06	:	Not determined.

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding				
tolueen xylene	-	-	-	Development 2 Development 2	-				
Water Discharge Polic	V · A(3) Haza	I Indous for aquatic of	l organisms, may hay	•	dous effects in				
(ABM)									
<u>Norway</u>									
Sweden									
Flammable liquid class (SRVFS 2005:10)	s :1								
Switzerland									
VOC content	: VOC (w/w	ı): 51.2%							

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 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

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SECTION 16: Other information

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

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

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.
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 Asp. Tox. 1	ACUTE TOXICITY - Category 4 ASPIRATION HAZARD - Category 1
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Dam. 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

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Notice to reader

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

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