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

SAFETY DATA SHEET



ALPOCRYL KLARLACK 5454-50 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier

Product name

: ALPOCRYL KLARLACK 5454-50 - FARBLOS-INCOLORE-COLOURLESS

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 STOT RE 2, H373 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : Danger
- : H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

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SECTION 2: Hazards identification

Precautionary statements		
Prevention	:	 P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	1	P314 - Get medical advice/attention if you feel unwell.
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	:	Contains: n-Butyl acetate; Toluene; EO bis(benztriazolyl)phenylpropionat and bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
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	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
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]
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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
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			(oral, inhalation) Asp. Tox. 1, H304		
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]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤2.2	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	REACH #: 01-2119491304-40 EC: 255-437-1 CAS: 41556-26-7	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[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]
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 280-060-4 CAS: 82919-37-7	≤0.3	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[1]

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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.

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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

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 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 substance or mixture
 Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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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). Water polluting material. May be harmful

to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

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

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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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.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
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	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.
(ylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbe
Linyibenzene	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes.
/lethyl methacrylate	Regulation on Limit Values - MAC (Austria, 4/2021). Skin
, ,	sensitiser.
	TWA: 50 ppm 8 hours.
	TWA: 210 mg/m ³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 420 mg/m ³ , 8 times per shift, 5 minutes.
-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
,	STEL: 712 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
oluene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 77 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
thyl acetate	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
(ylene	STEL: 400 ppm 15 minutes. Limit values (Belgium, 5/2021). [Xylene] Absorbed through
yierie	skin.
	TWA: 50 ppm 8 hours.
	TWA: 201 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
thylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 87 mg/m ³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m ³ 15 minutes.
lethyl methacrylate	Limit values (Belgium, 5/2021).
-	TWA: 50 ppm 8 hours.
	TWA: 208 mg/m ³ 8 hours.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
-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.
oluene	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.

Ethyl acetate	Ministry of Labour and Social Policy and the Ministry of Hoalth - Ordinanco No 13/2003 (Bulgaria 6/2021)
	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.
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/m³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
Ethydhoneene	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 15 min: 545 mg/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.
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.
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: 192 fight 6 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.
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 fig/fit 6 hours.
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/
	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/
	STELV (Croatia, 1/2021). Absorbed through skin. Skin
	sensitiser.
	STELV: 100 ppm 15 minutes.
	ELV: 50 ppm 8 hours.
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SECTION 8: Exposure controls/personal protection Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Toluene Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. Ethyl acetate Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. **Xylene** Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.

TWA: 221 mg/m³ 8 hours.

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

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

Republic, 10/2022).

through skin.

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

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

Department of labour inspection (Cyprus, 7/2021).

	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.
Toluene	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
Ethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 191.1 ppm 8 hours.
	STEL: 900 mg/m³ 15 minutes. STEL: 245.7 ppm 15 minutes.
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech
Хуюпе	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/m ³ 15 minutes.
	STEL: 90.8 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
Methyl methacrylate	Government regulation of Czech Republic PEL/NPK-P (Czech
, ,	Republic, 10/2022). Skin sensitiser.
	TWA: 50 mg/m ³ 8 hours.
I	

Ethylbenzene

Methyl methacrylate

n-Butyl acetate

Date

	TWA: 12 ppm 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	STEL: 36 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.
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/m ³ 15 minutes.
thyl acetate	STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022).
inyi acelale	TWA: 150 ppm 8 hours.
	TWA: 540 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 109 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
thylbenzene	STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbe
linyibenzene	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.
Dutid a state	STEL: 100 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.
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/m ³ 15 minutes.
thul apotato	STEL: 100 ppm 15 minutes.
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.
ylene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m ³ 15 minutes.
thylbonzono	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.
-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.
oluene	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.
thyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
<i>,</i>	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.
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.
thylbenzene	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.
	STEL: 200 ppm 15 minutes.
Active motherer data	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
Buly doctate	(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.
oluene	Institute of Occupational Health, Ministry of Social Affairs
	(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.
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.
(ylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m ³ 15 minutes. TWA: 220 mg/m ³ 8 hours.

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	controls/personal protection TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	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.
Methyl methacrylate	STEL: 880 mg/m ³ 15 minutes. 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/m³ 15 minutes.
Putul apotato	
n-Butyl acetate	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: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
Foluene	STEL: 723 mg/m ³ 15 minutes.
loidene	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.
Ethyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulator limit values (article R. 4412-149 of the Labor Code)
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
(ylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limi 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.
lethyl methacrylate	Ministry of Labor (France, 10/2022). Notes: Binding regulato
	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.
-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/m³ 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.
oluene	

	ontrols/personal protection
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ , 4 times per shift, 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.
(ylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed throug
, ·-	skin.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 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.
thylbenzene	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.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	PEAK: 176 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 88 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
1ethyl methacrylate	TRGS 900 OEL (Germany, 6/2022).
	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.
	PEAK: 100 ml/m ³ , 4 times per shift, 15 minutes.
-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.
oluene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 30 ppm 8 hours.
	STEL: 100 ppm 15 minutes.

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SECTION 8: Exposure controls/personal protection STEL: 384 mg/m³ 15 minutes. Ethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/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. Methyl methacrylate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m³ 8 hours. PEAK: 384 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Ethyl acetate Inhalation sensitiser. TWA: 734 mg/m³ 8 hours. PEAK: 1468 mg/m³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 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 ma/m³ 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Methyl methacrylate 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.

n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butyl acetate, all isomers]
	TWA: 241 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Toluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
Ethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	TWA: 540 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
Xylene	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/m³ 8 hours.
	TWA: 25 ppm 8 hours.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Methyl 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.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
Toluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 192 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 384 mg/m ³ 15 minutes.
Ethyl 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.
Xylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Limit
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-011. 442 mg/m o nours. OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m ³ 15 minutes.
Methyl methacrylate	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
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SECTION 8: Exposure controls/personal protection OELV-15min: 100 ppm 15 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Toluene Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 192 mg/m³ 8 hours. Ethyl acetate Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Short Term: 400 ppm 15 minutes. Short Term: 1468 mg/m³ 15 minutes. 8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m³ 8 hours. Legislative Decree No. 819/2008. Title IX. Protection from **Xylene** chemical agents, carcinogens and mutagens (Italy, 6/2020). [Xylenes, mixed isomers, pure] Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m³ 15 minutes. Ethylbenzene Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin.

8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m³ 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m³ 15 minutes.

8 hours: 50 ppm 8 hours.

TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.

Absorbed through skin. TWA: 50 mg/m³ 8 hours. STEL: 150 mg/m³ 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.

TWA: 200 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes.

[Xylenes] Absorbed through skin.

TWA: 54 ppm 8 hours.

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

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

Short Term: 100 ppm 15 minutes.

Legislative Decree No. 819/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020).

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

Methyl methacrylate

n-Butyl acetate

Toluene

Ethyl acetate

Xylene

Ethylbenzene

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SECTION 8: Exposure controls/personal protection Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Methyl methacrylate TWA: 10 ma/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butyl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Toluene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m³ CEIL: 300 ppm **Xylene** Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Ethylbenzene Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. Methyl methacrylate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. Ethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours.

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	TWA: 442 mg/m³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
-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.
aluana	TWA: 50 ppm 8 hours.
oluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values TWA: 192 mg/m ³ 8 hours.
	TWA: 192 fig/ill o hours. TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
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.
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.
thylbenzene	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.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
1ethyl 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.
	OEL, 8-h TWA: 50 ppm 8 hours.
oluene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 150 mg/m ³ 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.
thyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	STEL,15-min: 1468 mg/m ³ 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.
(ylene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed
	through skin.
	OEL, 8-h TWA: 210 mg/m ³ 8 hours.

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	e controls/personal protection
	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.
Ethylbenzene	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/m ³ 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/m³ 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.
n-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.
oluene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
thyl acetate	TWA: 94 mg/m³ 8 hours. 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.
(ylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers
	Absorbed through skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
Thulbonzono	TWA: 108 mg/m ³ 8 hours.
Ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value
	TWA: 5 ppm 8 hours.
	TWA: 20 mg/m ³ 8 hours.
lethyl methacrylate	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
5	Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 100 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021).
	TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes.
oluene	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). Absorbed through skin.
	TWA: 100 mg/m ³ 8 hours.
	STEL: 200 mg/m ³ 15 minutes.
Ethyl acetate	

3	SECTION 8: Exposure controls/	bersonal protection
		concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).
	Xylene	TWA: 734 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy
		of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed
		through skin. TWA: 100 mg/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/m ³ 8 hours. STEL: 400 mg/m ³ 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/m ³ 8 hours. STEL: 300 mg/m ³ 15 minutes.
	n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
	Toluene	Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin. TWA: 20 ppm 8 hours.
	Ethyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours.
	Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
	Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
	Methyl methacrylate	Portuguese Institute of Quality (Portugal, 11/2014). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
	n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 241 mg/m ³ 8 hours. VLA: 50 ppm 8 hours.
	Toluene	Short term: 723 mg/m ³ 15 minutes. Short term: 150 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and
		additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m ³ 15 minutes. Short term: 100 ppm 15 minutes.
	Ethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 734 mg/m ³ 8 hours. VLA: 200 ppm 8 hours. Short term: 1468 mg/m ³ 15 minutes.
	Xylene	Short term: 400 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin.
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SECTION 8: Exposure controls	/personal protection
Ethylbenzene	VLA: 221 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m ³ 15 minutes. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 442 mg/m ³ 8 hours. VLA: 100 ppm 8 hours.
Methyl methacrylate	Short term: 884 mg/m ³ 15 minutes. Short term: 200 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 205 mg/m ³ 8 hours. Short term: 410 mg/m ³ 15 minutes. VLA: 50 ppm 8 hours.
n-Butyl acetate	Short term: 100 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m ³ , (Butyl acetates) 8 hours.
Toluene	 TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 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.
Xylene	STEL: 400 ppm 15 minutes. 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.
Ethylbenzene	TWA: 22 Fing/m ² , (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes. 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.
Methyl methacrylate	STEL: 200 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin sensitiser. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
n-Butyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m ³ , 4 times per shift, 15 minutes.
Toluene	KTV: 150 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	KTV: 384 mg/m ³ , 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
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SECTION 8: Exposure co	ontrols/personal protection
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1468 mg/m ³ , 4 times per shift, 15 minutes.
Xylene	KTV: 400 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
Xylone	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.
Ethylhanzana	KTV: 100 ppm, 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 884 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 200 ppm, 4 times per shift, 15 minutes.
Methyl methacrylate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 210 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
	KTV: 420 mg/m³, 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
Tahaana	STEL: 723 mg/m ³ 15 minutes.
Toluene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin. TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Xylene	National institute of occupational safety and health (Spain,
,	4/2022). [Xylene, mixture of isomers] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylhanzana	STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Methyl methacrylate	National institute of occupational safety and health (Spain,
	4/2022). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
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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. Toluene Work environment authority Regulation 2018:1 (Sweden, 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. 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. **Xylene** Work environment authority Regulation 2018:1 (Sweden, 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. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 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. Methyl methacrylate Work environment authority Regulation 2018:1 (Sweden, 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. SUVA (Switzerland, 1/2023). n-Butyl acetate TWA: 50 ppm 8 hours.

TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.

TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m³ 15 minutes.

through skin.

TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m³ 15 minutes.

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

TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours.

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

Ethyl acetate

Xylene

_.. ..

Ethylbenzene

Methyl methacrylate

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sue : No previous validation

SUVA (Switzerland, 1/2023). Absorbed through skin.

SUVA (Switzerland, 1/2023). Skin sensitiser.

SUVA (Switzerland, 1/2023). Absorbed through skin.

SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed

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SECTION 8: Exposure controls/personal protection		
	STEL: 100 ppm 15 minutes. STEL: 420 mg/m³ 15 minutes.	
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.	
Toluene	TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 384 mg/m ³ 15 minutes.	
	TWA: 191 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	STEL: 100 ppm 15 minutes.	
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 400 ppm 15 minutes.	
	TWA: 200 ppm 8 hours.	
	STEL: 1468 mg/m ³ 15 minutes.	
	TWA: 734 mg/m ³ 8 hours.	
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,	
	p- or mixed isomers] Absorbed through skin.	
	STEL: 441 mg/m ³ 15 minutes.	
	TWA: 50 ppm 8 hours.	
	TWA: 220 mg/m ³ 8 hours.	
Ethylbenzene	STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 552 mg/m ³ 15 minutes.	
	STEL: 125 ppm 15 minutes.	
	TWA: 100 ppm 8 hours.	
	TWA: 441 mg/m ³ 8 hours.	
Methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 416 mg/m ³ 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 208 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
Biological exposure indices		

Product/ingredient name **Exposure indices** Toluene VGU BEI (Austria, 9/2020) BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /µl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year. VGU BEI (Austria, 9/2020) [xylenes] **Xylene** 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. Date of issue/Date of revision : 31/07/2024 24/45 Date of previous issue Version :1 : No previous validation ALPOCRYL KLARLACK 5454-50 - FARBLOS-INCOLORE-COLOURLESS Label No :51823

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: 1.58 mol/mol 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. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	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 ovposuro indicos known	
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.

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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.	work shint at the end of the working week of exposure period.
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 of 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: 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 exposure or end of shift; for long-term exposures: at the end of exposure or end of shift; for long-term exposures: at the end of exposure or end of shift; for long-term exposures: at the end of exposure or end of shift; for long-term exposures: at the 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).

SECTION 8: Exposure	controls	/personal protection
		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.
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 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.		
No exposure indices known.		
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SECTION 8: Exposure con	
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.
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: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 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.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic

		•
	Ethylbenzene	 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: 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. BLV: 1.5 mg/l, xylene [in blood]. 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.
		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: 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: 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: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
	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.
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ECTION 8: Exposure	Notional institute of accurational asfatu and health (Or air
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: 600 μg/l, toluene [in blood]. Sampling time: immediately after
	exposure or after working hours.
	BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.
	BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after
	exposure or after working hours.
Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers]
Aylene	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.
Recommended monitoring :	Reference should be made to monitoring standards, such as the following:
procedures	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

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required.

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/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	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
oluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m³	General population	Systemic
	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
thyl 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/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Short term Inhalation	734 mg/m³	General population	Systemic

	DNEL	Long term	734 mg/m ³	Workers	Local	
	DILL	Inhalation	701 mg/m	T on of the	Loodi	
	DNEL	Long term	734 mg/m³	Workers	Systemic	
	DNEL	Inhalation Short term	1468 mg/	Workers	Local	
	DNEL	Inhalation Short term	m³ 1468 mg/	Workers	Systemic	
		Inhalation	m³ Č			
Xylene	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	260 mg/m³	General	Local	
	DNEL	Short term	260 mg/m ³	General	Systemic	
	DNEL	Inhalation Long term	221 mg/m ³	population Workers	Local	
	DNEL	Inhalation Long term Oral	12.5 mg/	General	Systemic	
			kg bw/day	population		
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic	
	DNEL	Long term Dermal	bw/day 212 mg/kg	population Workers	Systemic	
			bw/day			
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic	
	DNEL	Short term	442 mg/m ³	Workers	Local	
	DNEL	Inhalation Short term	442 mg/m ³	Workers	Systemic	
Ethylbenzene	DNEL	Inhalation Long term Oral	1.6 mg/kg	General	Systemic	
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic	
	DNEL	Inhalation Long term	77 mg/m ³	population Workers	Systemic	
		Inhalation	-			
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local	
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local	
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic	
Methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg	General	Systemic	
	DNEL	Short term	bw/day 208 mg/m³	population General	Local	
		Inhalation	_	population		
	DNEL	Short term Inhalation	416 mg/m ³	Workers	Local	
	DNEL	Short term Dermal	1.5 mg/cm ²	General	Local	
	DNEL	Long term Dermal	1.5 mg/cm ²	population General	Local	
	DNEL	Short term Dermal	1.5 mg/cm ²	population Workers	Local	
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic	
	DNEL	Long term Dermal	bw/day 13.67 mg/	population Workers	Systemic	
	DNEL	Long term	kg bw/day 74.3 mg/m³	General	Systemic	
	DNEL	Inhalation Long term	104 mg/m ³	population General	Local	
		Inhalation		population		
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Local	

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		DNEL	Long term Inhalation	348.4 mg/ m ³	Workers	Systemic
PNECs						
No PNECs available						
3.2 Exposure controls						
Appropriate engineering controls	ver cor cor	ntilation or ntaminants ntrols also	adequate ventila other engineerin s below any recounced need to keep ga its. Use explosio	g controls to kee mmended or stat s, vapour or dust	p worker expositutory limits. The concentrations	ure to airborne
Individual protection meas	<u>ures</u>					
Hygiene measures	bef App Col cor	ore eating propriate t ntaminate ntaminate	echniques should d work clothing s	sing the lavatory d be used to rem hould not be allo reusing. Ensure	and at the end ove potentially wed out of the	emical products, of the working period. contaminated clothing workplace. Wash tations and safety
Eye/face protection	ass gas unl	essment ses or dus	indicates this is r its. If contact is p	ecessary to avoi ossible, the follo	d exposure to li wing protection	be used when a risk quid splashes, mists, should be worn, n: chemical splash
Skin protection						
Hand protection	be this che sho diff sev	worn at al is necess eck during ould be no erent for o	I times when han sary. Considering use that the glow ted that the time	dling chemical p g the parameters ves are still retain to breakthrough anufacturers. In t	roducts if a risk s specified by th ning their protec for any glove m the case of mix	tures, consisting of
	Re	commend	ations:Wear s	uitable gloves tes	sted to EN374.	
	< 1	hour (bre	eakthrough time):	Nitrile gloves	s. thickness > ().3 mm
	1 -	4 hours (b	preakthrough time	e): 4H / Silver	Shield® gloves.	
Body protection	bei bef wea diso Eur	ng perforr ore handl ar anti-sta charges, c opean St	ned and the risks ing this product. tic protective clot	involved and sh When there is a hing. For the gre clude anti-static for further inform	ould be approventies of ignition frequencies of ignition frequencies protection overalls, boots and the second sec	and gloves. Refer to
Other skin protection	sel	ected bas	ootwear and any ed on the task be a specialist befor	ing performed a	nd the risks invo	ures should be blved and should be
Respiratory protection	app res asp Filt	propriate s piratory p pects of us er type:	standard or certifi rotection program se. A	cation. Respirate to ensure prope	ors must be use	irator that meets the ed according to a g, and other important
			oray application):			
Environmental exposure controls	ens In s	sure they of some case		equirements of e rs, filters or engi	nvironmental pr neering modific	otection legislation. ations to the process

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Slight
Odour threshold	: Not available.
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	

F	la	m	m	а	b	il	ity	

: Not available.

Lower and upper explosion limit

Upper: 11.5% (ethyl acetate) : Closed cup: -1°C (30.2°F)

: Lower: 0.8% (xylene)

Flash point Auto-ignition temperature

1 C

Ingredient name		°C	°F	Method
EO bis(benztriazolyl)phenylpropionat		405	761	
n-Butyl acetate		415	779	EU A.15
Decomposition temperature	ilable.			
рН	licable.			
Viscosity	: Not available.			

Solubility(ies) Not available.

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

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Vapour pressure

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

Relative density	i Not available.
Density	: 1 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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SECTION 10: Stabilit	and reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingre-	dients.
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 occ	cur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurise, curbraze, solder, drill, grind or expose containers to heat or sources of ignition.	t, weld,
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials	
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition produced should not be produced.	ucts

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	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 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	-

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

Acute toxicity estimates

Route	ATE value		
	11065.12 mg/kg 89.31 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	-
Toluene	Eyes - Mild irritant	Rabbit	-	mg 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	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

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Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-		
-	Eyes - Severe irritant	Rabbit	-	24 hours 5	-		
				mg			
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-		
	Skin - Moderate irritant	Rabbit	-	100 %	-		
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-		
				mg			
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-		
	Skin - Mild irritant	Rabbit	-	24 hours 15	-		
				mg			
Conclusion/Summary	: Causes skin irritation.						
<u>Sensitisation</u>							
Conclusion/Summary	: May cause an allergic skin reaction.						
Mutagenicity							
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.			
Carcinogenicity							
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.			
Reproductive toxicity							
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.			
Teratogenicity							
Conclusion/Summary	: Suspected of damaging the	ne unborn child.					
Specific target organ toxi	city (single exposure)						

Specific target organ toxicity (single exposure)

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

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	1	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	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

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SECTION 11: Toxicological information

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

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

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<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	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

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
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 - Daphnia magna	21 days
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 - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours

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
Toluene	2.73	90	Low
Ethyl acetate	0.68	30	Low
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	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.

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12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	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, toluene)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, toluene)	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	11	II	11	
14.5 Environmental hazards	No.	Yes.	No.	No.	
Additional information ADR/RID : Special provisions (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 ar upright and secure. Ensure that persons transporting the product know what to do 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					

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

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 KLARLACK 5454-50 Toluene	≥90 ≥10 - ≤25	3 48
Labelling :		
Other EU regulations		
Industrial emissions : Not lister (integrated pollution prevention and control) - Air	d	
Industrial emissions : Not lister (integrated pollution prevention and control) - Water	d	
Explosive precursors : Not appl	icable.	
Ozone depleting substances (1005/20	<u>09/EU)</u>	
Not listed.		
Prior Informed Consent (PIC) (649/201 Not listed.	<u>2/EU)</u>	
Persistent Organic Pollutants		

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	

National regulations

Austria			
VbF class	: A I Very dangerous flammable liquid.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 1		
<u>Denmark</u>			
Danish fire class	: I-1		
Executive Order No. 1795	<u>5/2015</u>		
Ingredient name		Annex I Section A	Annex I Section B
Ethylbenzene		Listed	-
MAL-code	: 4-5	1	1

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Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: **General:** Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed. MAL-code: 4-5 Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. - Protective clothing must be worn. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Air-supplied half mask, protective clothing and eye protection must be worn. When spraying in new* booths if the operator is outside the spray zone. - Air-supplied half mask and eye protection must be worn. When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. - Air-supplied full mask and protective clothing must be worn. During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth. - Air-supplied full mask, protective clothing and hood must be worn. **Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone. **Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn. **Caution** The regulations contain other stipulations in addition to the above. *See Regulations. Low-boiling liquids This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

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Restrictions on use		Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.		
List of undesirable substances	: L	listed		
Carcinogenic waste		Waste containers must be labeled: Contains a by Danish working environment legislation on		
<u>Finland</u>				
<u>France</u>				
Social Security Code, Articles L 461-1 to L 461-7	T E) E	n-Butyl acetate Foluene Ethyl acetate Kylene Ethylbenzene Methyl methacrylate	RG 84 RG 4bis, RG 84 RG 84 RG 4bis, RG 84 RG 84 RG 82	
Reinforced medical surveillance		Act of July 11, 1977 determining the list of act nedical surveillance: not applicable	tivities which require reinforced	
<u>Germany</u>				

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water	: 3
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 77.4% TA-Luft Class I - Number 5.2.5: 15.9%
<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	-	-	-	Development 2	-
xylene	-	-	-	Development 2	-
Water Discharge Policy : A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in					

(ABM)

: A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

Norway

Sweden

Flammable liquid class

(SRVFS 2005:10)

Switzerland

VOC content

: VOC (w/w): 69.1%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

: 1

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 Chemica	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	: ATE = Acute Toxicity Estimate
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
acronyms	
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

Full text of classifications [CLP/GHS]

SECTION 16: Other information

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