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

SAFETY DATA SHEET



ALPOCRYL KLARLACK 5453-25 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier

Product name

: ALPOCRYL KLARLACK 5453-25 - 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

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.

Precautionary statements

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SECTION 2: Hazards identification

Press of the se		
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	:	P314 - Get medical advice/attention if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate; Xylene; Toluene and EO bis(benztriazolyl)phenylpropionat
Supplemental label elements	:	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	-	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

: Mixture				
Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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]
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]
REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤5	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]
	Identifiers REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5 REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3	Identifiers%REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 $\geq 25 - \leq 50$ REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5 $\geq 10 - \leq 25$ REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 $\geq 10 - < 20$ REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 ≤ 5	Identifiers%ClassificationREACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 $\geq 25 - \leq 50$ Flam. Liq. 3, H226 STOT SE 3, H336 EUH066REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5 $\geq 10 - \leq 25$ Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 $\geq 10 - \leq 20$ Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 ≤ 5 Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Ethylbenzene	REACH #:	≤5	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
,	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	(vapours)] = 11 mg/	
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[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]
			See Section 16 for the full text of the H statements declared above.		

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

[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.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid	Imeasures
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.
	ns and effects, both acute and delayed
Over-exposure signs/symp	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	iate 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: Firefigh	ting 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.
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.

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Use water spray to keep fire-exposed containers cool.

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

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

6.4 Reference to other	:	See Section 1 for emergency contact information.
sections		See Section 8 for information on appropriate personal protective equipment.
		See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s) **Recommendations**

: Not available.

Industrial sector specific

solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m³, 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m ³ 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.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
2	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
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lethyl methacrylate	CEIL: 880 mg/m³, 8 times per shift, 5 minutes. 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.
Ethyl 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. STEL: 400 ppm 15 minutes.
(ylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
oluene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethylbenzene	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/m³ 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.
i-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.
thyl acetate	Ministry of Labour and Social Policy and the Ministry of
2	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/m³ 15 minutes.
	Limit value 8 hours: 200 ppm 8 hours.
(ylene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
	(mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/m ³ 8 hours.
	Limit value 15 min: 442 mg/m ³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
oluene	Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of
UNGIE	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.

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	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.
	Methyl methacrylate		Limit value 15 min: 545 mg/m ³ 15 minutes. 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.
	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.
	Toluene		ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
	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.
	n-Butyl acetate		Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
	Ethyl acetate		Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
	Xylene		Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
	Toluene		Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes.
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	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
thylbenzene	Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin.
	STEL: 884 mg/m³ 15 minutes. TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
lethyl methacrylate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
Balyracolato	Republic, 10/2022).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 149.661 ppm 15 minutes.
	TWA: 49.887 ppm 8 hours.
thyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 191.1 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 245.7 ppm 15 minutes.
ylene	Government regulation of Czech Republic PEL/NPK-P (Czec
-	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.
oluene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
0 - 0	STEL: 100.224 ppm 15 minutes.
thylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m ³ 15 minutes. STEL: 113.5 ppm 15 minutes.
lethyl methacrylate	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Skin sensitiser.
	TWA: 50 mg/m ³ 8 hours.
	TWA: 12 ppm 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	STEL: 36 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
Batyl doctate	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
thyl acetate	Working Environment Authority (Denmark, 6/2022).
-	TWA: 150 ppm 8 hours.
	TWA: 540 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
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.

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	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Toluene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m³ 8 hours. STEL: 384 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
,	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
lethyl methacrylate	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 102 mg/m ³ 8 hours.
	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.
thul apotata	TWA: 241 mg/m ³ 8 hours.
thyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
	TWA: 500 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 1100 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
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.
	TWA: 200 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.
thudhannana	STEL: 100 ppm 15 minutes.
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
Buly doctate	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
thyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
-	occupational exposure limit values
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.

XyleneEU OEL (Europe, 12022), bylene, mixed isomers pure) Assorbed through skin. Notes: list of indicative occupational exposure limit values TWA: S0 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 100 pp		
TokueneTWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. EU OEL (Europe, 12022). Absorbed through skin. Notes: list of Indicative occupational exposure limit values TWA: 192 mg/m 8 hours. STEL: 434 mg/m 15 minutes. EU OEL (Europe, 12022). Absorbed through skin. Notes: list of Indicative occupational exposure limit values TWA: 192 mg/m 8 hours. STEL: 334 mg/m 15 minutes.EthylbenzeneEU OEL (Europe, 12022). Absorbed through skin. Notes: list of Indicative occupational exposure limit values TWA: 192 pm 15 minutes.Methyl methacrylateEU OEL (Europe, 12022). Absorbed through skin. Notes: list of Indicative occupational exposure limit values TWA: 420 ppm 15 minutes.n-Butyl acetateEU OEL (Europe, 12022). Notes: list of indicative occupational exposure limit values TWA: 420 ppm 15 minutes.n-Butyl acetateEU OEL (Europe, 12022). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 200 ppm 15 minutes.ethyl acetateEU OEL (Europe, 12022). Notes: list of indicative occupational Health, Ministry of Social Affairs (Finand, 102201). TWA: 120 ppm 15 minutes.YeineInstitute of Cocupational Health, Ministry of Social Affairs (Finand, 102201). TWA: 200 ppm 15 minutes.YeineInstitute of Cocupational Health, Ministry of Social Affairs (Finand, 102201). (Yoroeng Absorbed through skin. Ottoxicant. TWA: 200 ppm 15 minutes.YeineInstitute of Cocupational Health, Ministry of Social Affairs (Finand, 102201). (Yoroeng Absorbed through skin. Stel: 400 ppm 15 minutes.YeineInstitute of Cocupational Health, Ministry of Social Affairs (Finand, 102201). (Yoroeng Absorbed through skin. Stel: 100 ppm 15 minutes.Toluene	Xylene	Absorbed through skin. Notes: list of indicative occupational
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Toluene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 100 ppm 15 minutes. STEL: 380 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 200 ppm 15 minutes. STEL: 200 ppm 15 minutes. STEL: 880 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 10 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 50 ppm 15 minutes. STEL: 50 ppm 15 minutes. wate of issue/Date of revision :01/03/202 Date of previous issue :No previous validation Version : 1 11/4	Xylene	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. TWA: 50 ppm 8 hours.
Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. Methyl methacrylate TWA: 50 ppm 8 hours. Methyl methacrylate STEL: 200 ppm 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). STEL: 880 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 42 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 50 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes. STEL: 210 mg/m³ 15 minutes. STEL: 210 mg/m³ 15 minutes. STEL: 210 mg/m³ 15 minutes.	Toluene	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.
Methyl methacrylate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 42 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes. STEL: 210 mg/m³ 15 minutes. STEL: 210 mg/m³ 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	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.
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n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Ethyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code) TWA: 200 ppm 8 hours.
	TWA: 200 ppm o hours. TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Xylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
Toluene	TWA: 50 ppm 8 hours. Ministry of Labor (France, 10/2022). Absorbed through skin.
loidene	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.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
Methyl methacrylate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	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.
n-Butyl acetate	DFG MAC-values list (Germany, 7/2022).
	TWA: 100 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 480 mg/m ³ 8 hours.
	PEAK: 960 mg/m ³ , 4 times per shift, 15 minutes.
	TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m ³ 8 hours.
	TWA: 62 ppm 8 hours.
	PEAK: 600 mg/m ³ 15 minutes.
	PEAK: 124 ppm 15 minutes.
Ethyl acetate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 730 mg/m ³ 8 hours.
	PEAK: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 750 mg/m ³ 8 hours.
	PEAK: 1500 mg/m ³ , 4 times per shift, 15 minutes.
Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through
	skin.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
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SECTION 8: Exposure controls/personal protection 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/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes. Toluene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Ethylbenzene TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 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/m³, 4 times per shift, 15 minutes. TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours. Methyl methacrylate TRGS 900 OEL (Germany, 6/2022). TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 50 ml/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³, 4 times per shift, 15 minutes. PEAK: 100 ml/m³, 4 times per shift, 15 minutes. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Ethyl acetate 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. Presidential Decree 307/1986: Occupational exposure limit **Xylene** values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Date of issue/Date of revision :01/03/2024 13/44 Date of previous issue Version :1

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Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	STEL: 125 ppm 15 minutes.
Mathud weath comdate	STEL: 545 mg/m ³ 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/m ³ 8 hours.
	PEAK: 723 mg/m ³ 15 minutes.
	PEAK: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser.
	Inhalation sensitiser.
	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ 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/m ³ 8 hours.
	PEAK: 442 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 192 mg/m ³ 8 hours.
	PEAK: 384 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 442 mg/m ³ 8 hours.
	PEAK: 884 mg/m ³ 15 minutes.
	PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Methyl methacrylate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 208 mg/m ³ 8 hours.
	PEAK: 415 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
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n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butyl acetate, all isomers]
	TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Ethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
,	TWA: 540 mg/m ³ 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/m ³ 8 hours.
Toluene	TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m ³ 15 minutes.
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	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m ³ 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/m ³ 8 hours.
lethyl methacrylate	TWA: 50 ppm 8 hours. 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.
-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
thyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
,	Exposure Limit Values
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
	OELV-15min: 1468 mg/m ³ 15 minutes.
	OELV-8hr: 734 mg/m ³ 8 hours.
ylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
-	through skin. Notes: EU derived Occupational Exposure Lim
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m ³ 15 minutes.
oluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 192 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 384 mg/m ³ 15 minutes.
thylbenzene	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-15min: 200 ppm 15 minutes.
lathud mathaon data	OELV-15min: 884 mg/m ³ 15 minutes.
lethyl methacrylate	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU
	derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours.
	OELV-011: 50 ppm 8 hours. OELV-15min: 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.
thyl 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/m ³ 15 minutes.
	8 hours: 200 ppm 8 hours.
(de me	8 hours: 734 mg/m ³ 8 hours.
<i>(ylene)</i>	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.

	8 hours: 221 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
oluene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 mg/m ³ 8 hours.
thylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
,	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m ³ 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m ³ 15 minutes.
1ethyl methacrylate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Short Term: 100 ppm 15 minutes.
	8 hours: 50 ppm 8 hours.
-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
thyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 200 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 54 ppm 8 hours.
(ylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
oluene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	Absorbed through skin.
	TWA: 50 mg/m ³ 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	TWA: 14 ppm 8 hours.
	STEL: 40 ppm 15 minutes.
Ethylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	Absorbed through skin.
	TWA: 442 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 10 mg/m³ 8 hours.
-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
thyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 500 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	CEIL: 1100 mg/m ³
	CEIL: 300 ppm
Kylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.

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Toluene	TWA: 221 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
Ethylbenzene	STEL: 100 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
Methyl methacrylate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 200 mg/m o hours.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
Ethyl acetate	TWA: 241 mg/m ³ 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
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/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Toluene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
Mathyl mathaandata	STEL: 884 mg/m ³ 15 minutes.
Methyl methacrylate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values STEL: 400 ppm 15 minutes.
	STEL: 460 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes.
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	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
Kylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupation
	exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
oluene	STEL: 442 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
oldene	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.
thuhanzana	STEL: 100 ppm 15 minutes.
thylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis of indicative occupational exposure limit values TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit value
-Dutyl acetate	(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.
11. J	OEL, 8-h TWA: 50 ppm 8 hours.
thyl acetate	Ministry of Social Affairs and Employment, Legal limit value (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 value
	(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin.
	OEL, 8-h TWA: 210 mg/m ³ 8 hours.
	STEL, 15-min: 442 mg/m ³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes.
	OEL, 8-h TWA: 47.5 ppm 8 hours.
oluene	Ministry of Social Affairs and Employment, Legal limit value
	(Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m³ 8 hours.
	STEL, 15-min: 384 mg/m ³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes.
	OEL, 8-h TWA: 39 ppm 8 hours.
thylbenzene	Ministry of Social Affairs and Employment, Legal limit value
	(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 value
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 205 mg/m ³ 8 hours.
	STEL,15-min: 410 mg/m³ 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.
Flickerstel	TWA: 50 ppm 8 hours.
Ethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Xylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers]
Aylene	Absorbed through skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 108 mg/m ³ 8 hours.
Toluene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m 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.
Methyl methacrylate	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
	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/m ³ 8 hours.
	STEL: 720 mg/m ³ 15 minutes.
Ethyl acetate	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021).
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
Xylene	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed
	through skin.
	TWA: 100 mg/m ³ 8 hours.
Taluana	STEL: 200 mg/m ³ 15 minutes.
Toluene	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). Absorbed through skin.
	TWA: 100 mg/m ³ 8 hours.
Ethylbonzono	STEL: 200 mg/m ³ 15 minutes.
Ethylbenzene	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible

		· ·
	Methyl methacrylate	 concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 200 mg/m³ 8 hours. STEL: 400 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 100 mg/m³ 8 hours. STEL: 300 mg/m³ 15 minutes.
	n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
	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.
	Toluene	Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin.
	Ethylbenzene	TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014).
	Methyl methacrylate	TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Skin sensitiser. TWA: 50 ppm 8 hours.
	n-Butyl acetate	STEL: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).
	Ethyl acetate	 VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 734 mg/m³ 8 hours. VLA: 200 ppm 8 hours.
	Xylene	Short term: 1468 mg/m ³ 15 minutes. Short term: 400 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m ³ 8 hours.
	Toluene	 VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours.
	Ethylbenzene	Short term: 384 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/m³ 15 minutes. Short term: 200 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 205 mg/m³ 8 hours. Short term: 410 mg/m³ 15 minutes. VLA: 50 ppm 8 hours.
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	Short term: 100 ppm 15 minutes.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
Ethyl acetate	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.
(ylene	STEL: 400 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
Cylerie	[xylene, mixed isomers] Absorbed through skin.
	TWA: 221 mg/m ³ , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes.
	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.
oluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
thylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
lethyl methacrylate	STEL: 200 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Sl
	sensitiser.
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
-Butyl acetate	Regulation on protection of workers from the risks related t
	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.
	KTV: 150 ppm, 4 times per shift, 15 minutes.
thyl acetate	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1468 mg/m ³ , 4 times per shift, 15 minutes.
(vlana	KTV: 400 ppm, 4 times per shift, 15 minutes.
(ylene	Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021
	[xylene (mixture of isomers)] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 442 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
oluene	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021)
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 384 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021)
	Absorbed through skin. TWA: 442 mg/m³ 8 hours.

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	TWA: 100 ppm 8 hours.
	KTV: 884 mg/m³, 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/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
-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. STEL: 723 mg/m ³ 15 minutes.
thyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
ylene	National institute of occupational safety and health (Spain,
,	4/2022). [Xylene, mixture of isomers] Absorbed through skir
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
oluene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
thylbenzene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
	STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.
lethyl methacrylate	National institute of occupational safety and health (Spain,
	4/2022). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Dutid a satata	
-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [butyl acetate] TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
thyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 150 ppm 8 hours.
	TWA: 550 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 1100 mg/m ³ 15 minutes.
ylene	Work environment authority Regulation 2018:1 (Sweden,
,	9/2021). [xylene] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
oluene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Ototoxicant.
	TWA: 50 ppm 8 hours.

	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethylbenzene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
Methyl methacrylate	STEL: 884 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	TWA: 200 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
n-Butyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m ³ 15 minutes.
Ethyl acetate	SUVA (Switzerland, 1/2023).
5	STEL: 400 ppm 15 minutes.
	STEL: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 730 mg/m ³ 8 hours.
Kylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m ³ 15 minutes.
Toluene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
Ethylbenzene	STEL: 760 mg/m ³ 15 minutes. SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m ³ 15 minutes.
Methyl methacrylate	SUVA (Switzerland, 1/2023). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	TWA: 210 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 420 mg/m ³ 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.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
5	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-,n
	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.
	STEL: 100 ppm 15 minutes.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.

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STEL: 384 mg/m ³ 15 minutes.		
TWA: 191 mg/m ³ 8 hours.		
TWA: 50 ppm 8 hours.		
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.		
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
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
Toluene	 VGU BEI (Austria, 9/2020) BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one 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.
No exposure indices known.	
Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
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

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	time: at 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 c
	the work shift.
	BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time at the end of the work shift.
	BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the
	end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling
	time: at the end of the work shift.
	BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: a the end of the work shift.
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ILV/STE
	(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.
lo exposure indices known.	
Kylene	Government regulation of Czech Republic Limit Values of
	Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippurio
	acid [in urine]. Sampling time: end of the shift.
	Biological limit values: 1400 mg/g creatinine, methylhippuric acio [in urine]. Sampling time: end of the shift.
Foluene	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.
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
No exposure indices known.	urine]. Sampling time: end of the shift.
Vo exposure indices known.	
Vo exposure indices known.	

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Xylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 9/2020) [Xylene]
	BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
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.
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.	
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.
Toluene	DFG BEI-values list (Germany, 7/2022) Notes: danger from
	percutaneous absorption (see p. 211 and p. 228).
	BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure.
	BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time:
	end of exposure or end of shift / for long-term exposures: at the
	end of the shift after several shifts. BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or
	end of shift.
	TRGS 903 - BEI Values (Germany, 2/2022)
	BEI: 600 μg/l, toluene [in whole blood]. Sampling time: immediately after exposure.
	BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time:
	end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
	BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or
	end of shift.
Ethylbenzene	DFG BEI-values list (Germany, 7/2022) Notes: danger from
	percutaneous absorption (see p. 211 and p. 228).
	BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
	TRGS 903 - BEI Values (Germany, 2/2022)
	BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid
No exposure indices known.	[in urine]. Sampling time: end of exposure or end of 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.
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: a 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.	
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.
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.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origi of the determinant is in question., ethylbenzene [in endexhaled air] Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
Toluene	Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: en of the shift.
No exposure indices known.	
Xylene	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.
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.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014)

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			BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
X	(ylene		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.
Т	oluene		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.
E	thylbenzene		HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
×	(ylene		Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Т	oluene		 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 13399 µmol/l, o-cresol [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.
E	thylbenzene		Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine].
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		Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 µmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term 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.
	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.
	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 μ g/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μ g/l, toluene [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.
2	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.
	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.
	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.	
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Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Toluene	 SUVA (Switzerland, 1/2023) BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 μmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 μmol/l, 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: 6.00 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.
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.
procedures Europ asses value atmos of exp (Work for the	ence should be made to monitoring standards, such as the following: bean Standard EN 689 (Workplace atmospheres - Guidance for the ssment of exposure by inhalation to chemical agents for comparison with limit s and measurement strategy) European Standard EN 14042 (Workplace spheres - Guide for the application and use of procedures for the assessment bosure to chemical and biological agents) European Standard EN 482 (cplace atmospheres - General requirements for the performance of procedure e measurement of chemical agents) Reference to national guidance ments for methods for the determination of hazardous substances will also be red.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects		
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic		
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic		
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local		
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local		
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local		
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local		
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	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic			
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic			
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic			
	DNEL	Long term	12 mg/m ³	General	Systemic			
	DNEL	Inhalation Long term	48 mg/m³	population Workers	Systemic			
Ethyl acetate	DNEL	Inhalation Long term Oral	4.5 mg/kg	General	Systemic			
	DNEL	Long term Dermal	bw/day 37 mg/kg	population General	Systemic			
			bw/day	population				
	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	Systemic			
	DNEL	Short term	734 mg/m³	population General	Local			
	DNEL	Inhalation Short term	734 mg/m³	population General	Systemic			
	DNEL	Inhalation Long term	734 mg/m³	population Workers	Local			
		Inhalation						
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic			
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local			
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic			
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local			
	DNEL	Inhalation Short term	260 mg/m ³	population General	Local			
	DNEL	Inhalation Short term	260 mg/m ³	population General	Systemic			
	DNEL	Inhalation	221 mg/m ³	population Workers				
		Long term Inhalation	Ū		Local			
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic			
	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			
	DNEL	Long term	bw/day 221 mg/m³	Workers	Systemic			
	DNEL	Inhalation Short term	442 mg/m ³	Workers	Local			
		Inhalation						
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic			
Toluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic			
	DNEL	Long term Inhalation	56.5 mg/m ³	General	Local			
	DNEL	Long term	56.5 mg/m³	population General	Systemic			
	DNEL	Inhalation Long term	192 mg/m³	population Workers	Local			
	DNEL	Inhalation Long term	192 mg/m ³	Workers	Systemic			
		Inhalation	_					
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic			
	nte of issue/Date of revision : 01/03/2024 Date of previous issue : No previous validation Version : 1 31/44							

	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
	DINEL		220 mg/m		Systemic
		Inhalation	004	population	Question
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
Thulbonzono			1.6 mg/kg	Conorol	Sustamia
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 293 mg/m³	Workers	Local
	DINEL		295 mg/m	VVOIKeis	LUCAI
		Inhalation	440	\ \ /	Lanal
	DMEL	Long term	442 mg/m ³	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation			
Methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	208 mg/m ³	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	416 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term Dermal	1.5 mg/cm ²		Local
			1 5	population	
	DNEL	Long term Dermal	1.5 mg/cm ²	General	Local
				population	
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	74.3 mg/m ³	General	Systemic
		Inhalation	Ŭ	population	
	DNEL	Long term	104 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m ³	Workers	Local
		0	200 mg/m	VV UINEIS	LUCAI
		Inhalation	240 4	\//orkora	Curata main
	DNEL	Long term	348.4 mg/	Workers	Systemic
		Inhalation	m³		

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
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		
Flammability	: Not av	ailable.	1	1	
Lower and upper explosion limit	: Lower Upper	: 0.8% : 11.5%			
Flash point	: Closed	d cup: -1°C (30	0.2°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
n-Butyl acetate		415	779	EU A.15	
Ethyl acetate		426.67	800		
Decomposition temperature	: Not av	ailable.			
рН	: Not ap	plicable.			
Viscosity	: Not av	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	: Not av	ailable.			
Partition coefficient: n-octanol/ water	: Not ap	plicable.			

Vapour pressure

	Va	apour Press	ure at 20°C	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Toluene	23.17	3.1				
Relative density	: Not	available.		·		·
Density	: 1 g/	′cm³				
Vapour density	: Not available.					
Explosive properties	: Not available.					
Oxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stability and reactivity

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10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.					
10.2 Chemical stability	: The product is stable.					
10.3 Possibility of hazardous reactions						
10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.						
10.5 Incompatible materials	terials : Reactive or incompatible with the following materials: oxidising materials					
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.					
Date of issue/Date of revision	: 01/03/2024 Date of previous issue : No previous validation Version : 1 34/44					
ALPOCRYL KLARLACK 5453	25 - FARBLOS-INCOLORE-COLOURLESS Label No :52238					

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
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	
Dermal	7511.71 mg/kg	
Inhalation (vapours)	60.79 mg/l	

Irritation/Corrosion

Carcinogenicity

Reproductive toxicity

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
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	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Conclusion/Summary	: Causes skin irritation.				
Sensitisation					
Conclusion/Summary	: May cause an allergic skir	reaction.			
<u>Autagenicity</u>	, 0				
Conclusion/Summary	: Based on available data, t	he classification c	riteria are	not met.	

That y . Dased of available data, the diassification enteria are not met.

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

SECTION 11: Toxicological information

Conclusion/Summary

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

Teratogenicity

Conclusion/Summary : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes : Not available. of exposure

Potential acute health effects

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

• · · · ·				
Symptoms relate	ed to the phys	<u>sical, chemical a</u>	and toxicological	<u>characteristics</u>

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

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SECTION 11: Toxico		
Ingestion	Adverse symptoms may include the following: reduced foetal weight	
	increase in foetal deaths	
	skeletal malformations	
Delayed and immediate effect	s well as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
Potential immediate	Not available.	
effects		
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate	Not available.	
effects		
Potential delayed effects	Not available.	
Potential chronic health eff		
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 verse low levels.	ery
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 properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas -	32 days
		Embryo	
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> <i>pseudolimnaeus</i> - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours
Conclusion/Summary	: Based on available data, the classification	ation criteria are not met.	1

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

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

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information					
	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993	
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	
14.3 Transport hazard class(es)	3	3	3	3	
14.4 Packing group	II	II	II	II	
14.5 Environmental hazards	No.	Yes.	No.	No.	
Additional information ADR/RID : Special provisions 640 (C) Tunnel code (D/E) ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)					
14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.					
14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO instruments					
SECTION 15:	Regulatory inform	nation			

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

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Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
ALPOCRYL KLARLACK 5453-25	≥90	3
Toluene	≤5	48

Labelling

Other EU regulations

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

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

SECTION 15: Regulatory information

	_	- Air-supplied half mask, coveralls and eye protection	must be worn.
		During downtimes, cleaning and repair in closed facilities there is a risk of contact with wet paint or organic solv	
		- Air-supplied full mask and coveralls must be worn.	
		When spraying in existing* spray booths, if the operation	tor is outside the spray zone.
		- Air-supplied full mask, arm protectors and apron mu	ust be worn.
		During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is wor	
		- Air-supplied full mask must be worn.	
		During all spraying where atomisation occurs in cabin operator is inside the spray zone and during spraying or booth.	
		- Air-supplied full mask, coveralls and hood must be v	worn.
		Drying: Items for drying/drying ovens that are temporack trolleys, etc, must be equipped with a mechanica fumes from wet items from passing through workers'	al exhaust system to prevent
		Polishing: When polishing treated surfaces, a mask When machine grinding, eye protection must be worr 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 re should be air-fed.	spiratory protective equipment
Restrictions on use	:	Not to be used by professional users below 18 years Working Environment Authorities Executive Order reg	
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substa by Danish working environment legislation on cancer	
Finland			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7	:	n-Butyl acetate Ethyl acetate Xylene Toluene Ethylbenzene Methyl methacrylate	RG 84 RG 84 RG 4bis, RG 84 RG 4bis, RG 84 RG 84 RG 82
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	which require reinforced
Germany			
Storage class (TRGS 510)	:	3	
Hazardous incident ordinal			

SECTION 15: Regulatory information

Category	Reference number
P5c	1.2.5.3

Hazard class for water	1	3
Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 82.9% TA-Luft Class I - Number 5.2.5: 8.4%
<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	
xylene tolueen	-	-	-	Development 2 Development 2	-	
Water Discharge Policy (ABM) : A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A						

<u>Norway</u>

<u>Sweden</u>

Flammable liquid class : 1 (SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 70.8%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and F 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Haza N/A = Not available PBT = Persistent, Bioaccumulative a PNEC = Predicted No Effect Concer RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bio 	el and statement and Toxic atration r	egulation (EC) №	lo.
Date of issue/Date of revision	: 01/03/2024 Date of previous issue	: No previous validation	Version : 1	42/44

SECTION 16: Other information

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

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

Full text of abbreviated H statements

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

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of revision	: 01/03/2024

Date of previous issue	: No previous validation		
Version	: 1		

Notice to reader

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

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