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

SAFETY DATA SHEET



ALPOCRYL DP 5520-40 - All variants

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

1.1 Product identifier

Product name : ALPOCRYL DP 5520-40 - All variants

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

1.3 Details of the supplier of the safety data sheet

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

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms



Signal word	Warning
Hazard statements	H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
Response	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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SECTION 2: Hazards identification

SECTION 2. Hazarus	IC	ienuncauon
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate; EO bis(benztriazolyl)phenylpropionat; bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate
Supplemental label elements	1	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	1	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
EO bis(benztriazolyl)	REACH #:	≤3	Skin Sens. 1A, H317	-	[1]

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SECTION 3: Compo	sition/informat	ion on in	gredients		
phenylpropionat	01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3		Aquatic Chronic 2, H411		
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	REACH #: 01-2119491304-40 EC: 255-437-1 CAS: 41556-26-7	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 280-060-4 CAS: 82919-37-7	≤0.3	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
2-hydroxyethyl methacrylate	REACH #: 01-2119490169-29 EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

SECTION 4: First aid measures

4.1 Description of first 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	

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Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
for fire-fighters	there is a fire. No action shall be taken involving any personal risk or without
	suitable training. Move containers from fire area if this can be done without risk.
	Use water spray to keep fire-exposed containers cool.

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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.
	chemical incluents.

SECTION 6: Accidental release measures

6.1 Personal precaution	s, protective equipment a	and emergency procedures
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For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	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 sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

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

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

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific

solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes.
2-butoxyethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m ³ 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 270 mg/m ³ , 4 times per shift, 30 minutes.
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SECTION 8: Exposure controls/personal protection

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	n-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.
	Xylono.	TWA: 50 ppm 8 hours. Limit values (Belgium, 5/2021). [Xylene] Absorbed through
	Xylene	skin.
		TWA: 50 ppm 8 hours.
		TWA: 221 mg/m ³ 8 hours.
		STEL: 100 ppm 15 minutes.
	Ethylbonzono	STEL: 442 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin.
	Ethylbenzene	
		TWA: 20 ppm 8 hours. TWA: 87 mg/m³ 8 hours.
		STEL: 125 ppm 15 minutes.
		STEL: 551 mg/m ³ 15 minutes.
	2-butoxyethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
		TWA: 20 ppm 8 hours.
		TWA: 20 ppm 8 hours. TWA: 133 mg/m ³ 8 hours.
		STEL: 50 ppm 15 minutes.
		STEL: 333 mg/m ³ 15 minutes.
	n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
		Limit value 8 hours: 241 mg/m ³ 8 hours.
		Limit value 15 min: 723 mg/m³ 15 minutes.
		Limit value 15 min: 150 ppm 15 minutes.
		Limit value 8 hours: 50 ppm 8 hours.
	Xylene	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
		(mixture of isomers), pure] Absorbed through skin.
		Limit value 8 hours: 221 mg/m ³ 8 hours.
		Limit value 15 min: 442 mg/m ³ 15 minutes.
		Limit value 15 min: 100 ppm 15 minutes.
		Limit value 8 hours: 50 ppm 8 hours.
	Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
		through skin.
		Limit value 8 hours: 435 mg/m ³ 8 hours.
		Limit value 15 min: 545 mg/m³ 15 minutes.
	2-butoxyethyl acetate	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
		through skin.
		Limit value 8 hours: 133 mg/m ³ 8 hours.
		Limit value 15 min: 333 mg/m ³ 15 minutes.
		Limit value 8 hours: 20 ppm 8 hours.
		Limit value 15 min: 50 ppm 15 minutes.
	propylidynetrimethanol	Ministry of Labour and Social Policy and the Ministry of
		Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
		Limit value 8 hours: 50 mg/m ³ 8 hours.
	n Rutul apotato	C C
	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.
	Videna	ELV: 50 ppm 8 hours.
	Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
		through skin.
		STELV: 442 mg/m ³ 15 minutes.
		STELV: 100 ppm 15 minutes.
		ELV: 221 mg/m ³ 8 hours.
		ELV: 50 ppm 8 hours.
	Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021). Absorbed through skin.
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SECTION 8: Exposure controls/personal protection STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours. 2-butoxyethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 333 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 133 mg/m³ 8 hours. ELV: 20 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 ma/m³ 8 hours. Department of labour inspection (Cyprus, 7/2021). [Xylene, **Xylene** mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed Ethylbenzene through skin. STEL: 884 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. Department of labour inspection (Cyprus, 7/2021). Absorbed 2-butoxyethyl acetate through skin. STEL: 50 ppm 15 minutes. STEL: 333 ma/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 133 mg/m³ 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 10/2022). TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours. **Xylene** Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Ethylbenzene Republic, 10/2022). Absorbed through skin. TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m³ 15 minutes. STEL: 113.5 ppm 15 minutes. 2-butoxyethyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 130 mg/m³ 8 hours. TWA: 19.5 ppm 8 hours. STEL: 300 mg/m³ 15 minutes. STEL: 45 ppm 15 minutes. Date of issue/Date of revision 8/37 Version :1

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SECTION 8: Exposure controls/personal protection n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. **Xylene** Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene Working Environment Authority (Denmark, 6/2022). Absorbed through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m³ 8 hours. STEL: 434 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed 2-butoxyethyl acetate

through skin.

TWA: 20 ppm 8 hours. TWA: 134 mg/m³ 8 hours. STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. **Xylene** 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/m³ 15 minutes. TWA: 200 mg/m³ 8 hours. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, 2-butoxyethyl acetate 12/2022). Absorbed through skin. Skin sensitiser. TWA: 133 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. **Xylene** EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours.

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	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
2-butoxyethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes. STEL: 333 mg/m ³ 15 minutes.
- Putul apatata	Institute of Occupational Health, Ministry of Social Affairs
n-Butyl acetate	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
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.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 880 mg/m ³ 15 minutes.
2-butoxyethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours. TWA: 130 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 330 mg/m ³ 15 minutes.
n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Xylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code) STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
-	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
2-butoxyethyl acetate	STEL: 100 ppm 15 minutes.
	Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	STEL: 333 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 66.5 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
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SECTION 8¹ Exposure controls/personal protection

SECTION 8. Exposure contra	
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.
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.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]
	Absorbed through skin. TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.
Ethylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
5	TWA: 88 mg/m ³ 8 hours.
	PEAK: 176 mg/m ³ 15 minutes.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	PEAK: 176 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 88 mg/m ³ 8 hours.
2 hutovy othyl apototo	TWA: 20 ppm 8 hours.
2-butoxyethyl acetate	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 65 mg/m³ 8 hours. PEAK: 130 mg/m³ 15 minutes.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 66 mg/m ³ 8 hours.
	PEAK: 132 mg/m ³ , 4 times per shift, 15 minutes.
2-hydroxyethyl methacrylate	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
M. da and	STEL: 723 mg/m ³ 15 minutes.
Xylene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
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.
	STEL: 545 mg/m ³ 15 minutes.
2-butoxyethyl acetate	
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SECTION 8: Exposure controls/personal protection Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 20 ppm 8 hours. TWA: 135 mg/m³ 8 hours. STEL: 40 ppm 15 minutes. STEL: 270 mg/m³ 15 minutes. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. n-Butyl acetate Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours. PEAK: 442 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m³ 8 hours. PEAK: 884 mg/m³ 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours. 2-butoxyethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. TWA: 133 mg/m³ 8 hours. PEAK: 333 mg/m³ 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [butyl acetate, all isomers] TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. **Xylene** Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Ethylbenzene Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 200 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 2-butoxyethyl acetate Absorbed through skin. STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 133 mg/m³ 8 hours. TWA: 20 ppm 8 hours. n-Butyl acetate NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed **Xylene** through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours.

	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m ³ 15 minutes.
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. OELV-15min: 884 mg/m³ 15 minutes.
-butoxyethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 133 mg/m ³ 8 hours.
	OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 333 mg/m ³ 15 minutes.
-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
y	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.
(ylene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
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/m³ 15 minutes.
-butoxyethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 20 ppm 8 hours.
	8 hours: 133 mg/m ³ 8 hours.
	Short Term: 50 ppm 15 minutes.
	Short Term: 333 mg/m ³ 15 minutes.
-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
Buly acciato	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 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.
thylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
-hutovyethyl acetato	STEL: 884 mg/m ³ 15 minutes. Ministers Cabinet Regulations Nr 325 - AER (Latvia, 2/2021)
-butoxyethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 133 mg/m ³ 8 hours.

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	STEL: 333 mg/m ³ 15 minutes.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
ylene	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.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
thylbenzene	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.
-butoxyethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 70 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 140 mg/m ³ 15 minutes.
	STEL: 20 ppm 15 minutes.
propylidynetrimethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	CEIL: 5 ppm
2-hydroxyethyl methacrylate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin
	sensitiser. Inhalation sensitiser.
	TWA: 20 mg/m ³ 8 hours.
n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Kylene	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.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
2-butoxyethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m ³ 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.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupationa
	exposure limit values
	TWA: 50 ppm 8 hours.

	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
-butoxyethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m ³ 15 minutes.
-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit value
	(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.
(ylene	OEL, 8-h TWA: 50 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit value
cylene	(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.
Ethylbenzene	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.
2-butoxyethyl acetate	Ministry of Social Affairs and Employment, Legal limit value
	(Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 135 mg/m ³ 8 hours.
	STEL, 15-min: 333 mg/m ³ 15 minutes.
	OEL, 8-h TWA: 20.3 ppm 8 hours.
	STEL,15-min: 50 ppm 15 minutes.
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
Buly acciato	STEL: 723 mg/m ^{3} 15 minutes.
	STEL: 150 ppm 15 minutes.
	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Kylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomer
	Absorbed through skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 108 mg/m ³ 8 hours.
Ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Carcinogen. Notes: indicative limit value
	TWA: 5 ppm 8 hours. TWA: 20 mg/m ³ 8 hours.
2-butoxyethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 10 ppm 8 hours.
	TWA: 65 mg/m ³ 8 hours.
2-hydroxyethyl methacrylate	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
	TWA: 2 ppm 8 hours.
	TWA: 11 mg/m ³ 8 hours.

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	Dogulation of the Minister of Family, Labor and Casicl Dallary
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.
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.
Ethylbenzene	STEL: 200 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy
Larybenzene	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
2 butowystbyl sectors	STEL: 400 mg/m ³ 15 minutes.
2-butoxyethyl 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). Absorbed through skin.
	TWA: 100 mg/m ³ 8 hours.
	STEL: 300 mg/m ³ 15 minutes.
n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]
	TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014).
2-butoxyethyl acetate	TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 20 ppm 8 hours.
n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). VLA: 241 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 723 mg/m ³ 15 minutes.
Xylene	Short term: 150 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. VLA: 50 ppm 8 hours.
	Short term: 442 mg/m ³ 15 minutes.
Ethylbenzene	Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and
Eurybenzene	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 442 mg/m ³ 8 hours.
	VLA: 100 ppm 8 hours. Short term: 884 mg/m³ 15 minutes.
	Short term: 200 ppm 15 minutes.
2-butoxyethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.
	VLA: 133 mg/m ³ 8 hours.
	VLA: 20 ppm 8 hours. Short term: 333 mg/m ³ 15 minutes.
	Short term: 50 ppm 15 minutes.
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n-Butyl	acetate		[Butyl acetates] TWA: 241 mg/m³, (TWA: 50 ppm, (But	tion SR c. 355/2006 (Si Butyl acetates) 8 hours. yl acetates) 8 hours. (Butyl acetates) 15 minu).
Xylene			Government regula [xylene, mixed ison TWA: 221 mg/m ³ , (TWA: 50 ppm, (xyle STEL: 442 mg/m ³ ,	utyl acetates) 15 minute ation SR c. 355/2006 (Sl mers] Absorbed throug xylene, mixed isomers) 8 ene, mixed isomers) 8 ho (xylene, mixed isomers)	ovakia, 9/2020) h skin. 8 hours. ours. 15 minutes.).
Ethylbe	nzene			hours. ours. I5 minutes.).
2-butox	syethyl acetate			ition SR c. 355/2006 (Sl skin. hours. urs. I5 minutes.	ovakia, 9/2020).
	acetate		exposure to chemic TWA: 241 mg/m ³ 8 TWA: 50 ppm 8 ho KTV: 723 mg/m ³ , 4		t (Slovenia, 5/2 0 utes.	
Xylene			exposure to chemic [xylene (mixture of TWA: 221 mg/m ³ 8 TWA: 50 ppm 8 ho KTV: 442 mg/m ³ , 4		a (Slovenia, 5/2 0 I rough skin. Ittes.	
Ethylbe	nzene		Absorbed through TWA: 442 mg/m ³ 8 TWA: 100 ppm 8 h KTV: 884 mg/m ³ , 4	hours.	t (Slovenia, 5/2 0) utes.	
2-butox	yethyl acetate		Regulation on prote exposure to chemic Absorbed through TWA: 133 mg/m ³ 8 TWA: 20 ppm 8 ho KTV: 333 mg/m ³ , 4	ection of workers from cal substances at work skin. hours.	the risks relat (Slovenia, 5/2) Ites.	
n-Butyl	acetate		4/2022). TWA: 50 ppm 8 ho TWA: 241 mg/m ³ 8 STEL: 150 ppm 15	hours. minutes.	nd health (Spa	in,
Xylene				f occupational safety a ixture of isomers] Abso urs. hours. minutes.		
Ethylbe	nzene			f occupational safety a	nd health (Spa	in,
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	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
2-butoxyethyl acetate	National institute of occupational safety and health (Spain,
, <u>,</u>	4/2022). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m ³ 15 minutes.
-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
-	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 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.
thylbenzene	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.
	STEL: 884 mg/m ³ 15 minutes.
-butoxyethyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 70 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m ³ 15 minutes.
propylidynetrimethanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 5 mg/m ³ 8 hours.
-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.
Zylene	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.
thylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
butowyothyl contato	STEL: 220 mg/m ³ 15 minutes.
-butoxyethyl acetate	SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 10 ppm 8 hours. Form: vapour and aerosols
	TWA: 10 ppm 8 hours. Form: vapour and aerosols TWA: 66 mg/m ³ 8 hours. Form: vapour and aerosols
	STEL: 20 ppm 15 minutes. Form: vapour and aerosols
	STEL: 132 mg/m ³ 15 minutes. Form: vapour and aerosols

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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.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-
5	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.
Ethylbenzene	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.
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 332 mg/m ³ 15 minutes.
	TWA: 133 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 416 mg/m 3 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
louene	through skin.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Phosphoric acid, solution	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2 mg/m ³ 15 minutes.
	TWA: 1 mg/m ³ 8 hours.
athyl acrylata	EH40/2005 WELs (United Kingdom (UK), 1/2020).
ethyl acrylate	
	STEL: 42 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 5 ppm 8 hours. TWA: 21 mg/m ³ 8 hours.

Biological exposure indices

SECTION 8: Exposure controls/personal protection **Product/ingredient name Exposure indices** VGU BEI (Austria, 9/2020) [xvlenes] **Xvlene** BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year. No exposure indices known. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid - in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift. **Xylene** Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. No exposure indices known. **Xylene** Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Values of **Biological Exposure Tests (Czech Republic, 9/2015)** Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift. 2-butoxyethyl acetate Government regulation of Czech Republic Limit Values of **Biological Exposure Tests (Czech Republic, 9/2015)**

Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

No exposure indices known.

No exposure indices known. No exposure indices known.

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Xylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)
	BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
No exposure indices known.	······································
Xylene	DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228).
	BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.
Ethylbenzene	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
2-butoxyethyl acetate	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g, butoxy acetic acid (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.
No exposure indices known.	
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
	BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.
No exposure indices known.	
Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air].

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	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.	
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Xylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/I, methylhippuric acid [in urine]. Sampling time: end of shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling times end of the week.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [i urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling

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	•
	time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 µmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
Xylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
2-butoxyethyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
Xylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
No exposure indices known.	
Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/I, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene	SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
2-butoxyethyl acetate	SUVA (Switzerland, 1/2023) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
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.

SECTION 8: Exposure controls/personal protection

procedures

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

DNELs/DMELs

-	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	5
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DITE	enere term Derma	bw/day		eyetenne
	DNEL	Long term	35.7 mg/m ³	General	Local
	DILLE	Inhalation	oo.7 mg/m	population	Loodi
	DNEL	Short term	300 mg/m ³	General	Local
	DINLL	Inhalation	500 mg/m		LUCAI
			200 m m/m 3	population	Curtamia
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	300 mg/m ³	Workers	Local
	_	Inhalation			l
	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
		5	bw/day		,
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation	·= ···g,···	population	-)
	DNEL	Long term	48 mg/m³	Workers	Systemic
	DILLE	Inhalation	40 mg/m	Wonters	Cysternio
Xylene	DNEL		65.3 mg/m ³	General	Local
~yierie	DINEL	Long term	05.5 mg/m		LUCAI
		Inhalation	260 m m/m 3	population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation		_	
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation	~~ mg/m		Systemic
	DNEL	Short term	442 mg/m³	Workers	Local
			++2 mg/m	VINCIS	LUCAI
		Inhalation	110	Workorg	Suptorais
	DNEL	Short term	442 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
Ethylbenzene			bw/day	population	

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	DNEL	Long term Inhalation	15 mg/m³	General	Systemic	
	DNEL	Long term	77 mg/m³	population Workers	Systemic	
	DNEL	Inhalation Long term Dermal	180 mg/kg	Workers	Systemic	
	DNEL	Short term	bw/day 293 mg/m³	Workers	Local	
	DMEL	Inhalation Long term	442 mg/m ³	Workers	Local	
	DMEL	Inhalation Short term	884 mg/m³	Workers	Systemic	
2-butoxyethyl acetate	DNEL	Inhalation Long term Oral	8.6 mg/kg	General	Systemic	
	DNEL	Short term Oral	bw/day 36 mg/kg	population General	Systemic	
	DNEL	Short term Dermal	bw/day 72 mg/kg bw/day	population General	Systemic	
	DNEL	Long term Inhalation	bw/day 80 mg/m³	population General	Systemic	
	DNEL	Long term Dermal	102 mg/kg bw/day	population General	Systemic	
	DNEL	Short term Dermal	120 mg/kg bw/day	population Workers	Systemic	
	DNEL	Long term Inhalation	133 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	169 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	200 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	333 mg/m³	Workers	Local	
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.34 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.58 mg/m ³		Systemic	
	DNEL	Long term Dermal	0.94 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	3.3 mg/m ³	Workers	Systemic	
2-hydroxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.83 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.3 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	4.9 mg/m³	Workers	Systemic	

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	 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	: Emissions from ventilation or work process equipment should be checked to
controls	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	:

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Ingredient name		°C	°F	Method	
n-Butyl acetate		126	258.8	OECD 103	
Ethylbenzene		136.1	277	OECD 104	
Flammability	: Not av	ailable.			
Lower and upper explosion limit	: Lower Upper	: 0.8% : 7.6%			
Flash point	: Closed	d cup: 27°C (8	0.6°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
Polyethylene wax		244.85	472.7		
2-butoxyethyl acetate		340	644		
Decomposition temperature	: Not av	ailable.			
рН	: Not av	ailable.			
Viscosity	: Not av	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	: Not av	ailable.			
Partition coefficient: n-octanol/ water	: Not ap	oplicable.			

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg kPa		Method	mm Hg	kPa	Method	
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Ethylbenzene	9.30076	1.2					
Relative density	: Not	available.	+	·			
Density	: 1.3	g/cm³					
/apour density	: Not available.						
Explosive properties	: Not	available.					
Dxidising properties	: Not available.						
Particle characteristics							
Median particle size	: Not applicable.						

SECTION 10: Stability and reactivity

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10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
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.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
-	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
5	LD50 Oral	Rat	2400 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Oral	Rat	5050 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value	
Dermal	15450.91 mg/kg	
Inhalation (vapours)	125.26 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Éyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 500 mg	-

Conclusion/Summary	: Based on available data, the classification criteria are not met.
Sensitisation	
Conclusion/Summary	: May cause an allergic skin reaction.
Mutagenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	

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

Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Specific target organ toxic	<u>city (single exposure)</u>

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SECTION 11: Toxicological information

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes : Not available.

oi exposure	
Potential acute h	ealth effects

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

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff		
Not available.		
Conclusion/Summary	Not available.	
General	Once sensitized, a severe allergic reaction may occur when subseque to very low levels.	ntly exposed
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
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Reproductive toxicity

: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia dubia</i> - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
2-hydroxyethyl methacrylate	Acute LC50 227000 μg/l Fresh water	Fish - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

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
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
2-butoxyethyl acetate	1.51	-	Low
propylidynetrimethanol	-0.47	<1	Low
2-hydroxyethyl methacrylate	0.42	-	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.

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SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group		111	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa	tion		1	
ADR/RID ADN		<u>de</u> (D/E) It is only regulated as an I in tank vessels.	environmentally hazardo	ous substance when

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**

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designation [Usage]	
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Labelling	:			
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applica	able.		
Ozone depleting substance	<u>es (1005/2009</u>	<u>/EU)</u>		
Not listed.				
Prior Informed Consent (PI	C) (649/2012/	<u>EU)</u>		
Not listed.		·		
Persistent Organic Pollutar Not listed.	<u>nts</u>			
Seveso Directive				
This product is controlled und	der the Seveso	Directive.		

Danger criteria

Category			
P5c			
lational regulations			
<u>Austria</u>			
VbF class	: A II Very dangerous flammable liquid.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 11		
<u>Denmark</u>			
Danish fire class	: II-1		
Executive Order No. 1795	/ <u>2015</u>		
Ingredient name		Annex I Section A	Annex I Section B
titanium dioxide Ethylbenzene		Listed Listed	-
MAL-code	: 3-5	1	1

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

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

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

MAL-code: 3-5

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

- Protective clothing must be worn.

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

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

When spraying in new* booths if the operator is outside the spray zone.

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

When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask and protective clothing must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

 Restrictions on use
 : Not to be used by professional users below 18 years of age. See the National

 Working Environment Authorities Executive Order regarding Young People At Work.

-	-	
List of undesirable substances	Not listed	
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.	
<u>Finland</u>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	n-Butyl acetate Xylene Ethylbenzene 2-butoxyethyl acetate	RG 84 RG 4bis, RG 84 RG 84 RG 84
Reinforced medical surveillance	Act of July 11, 1977 determining the list of ad medical surveillance: not applicable	stivities which require reinforced
<u>Germany</u> Storage class (TRGS 510)	3	

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 2	
Technical instruction on	: TA-Luft Number 5.2.5: 64%	

Italy

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 Solvent naphtha (petroleum), light arom.	- Listed	- Listed	-	Development 2 -	-
Water Discharge Polic (ABM)	environm	ent (carcinogen	substances with haza icity/ mutagenicity/ rep recontamination effort	protoxicity/ bioacum	
<u>Norway</u>					
<u>Sweden</u>					
Flammable liquid clas (SRVFS 2005:10)	s : 2a				
Switzerland					
VOC content	: VOC (w/v	v): 33.8%			
nternational regulation	<u>IS</u>				
Chemical Weapon Conv Not listed.	vention List Scho	edules I, II & III	<u>Chemicals</u>		
Montreal Protocol Not listed.					
Stockholm Convention Not listed.	on Persistent O	<u>ganic Pollutan</u>	<u>ts</u>		
Rotterdam Convention	on Prior Informe	<u>d Consent (PIC</u>	<u>.)</u>		

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

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

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H336	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Carc. 2	CARCINOGENICITY - Category 2		
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		
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Skin Sens. 1 Skin Sens. 1A Skin Sens. 1B STOT RE 2 STOT SE 3	SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
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Notice to reader

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

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