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

SAFETY DATA SHEET



TEKNODUR 0050 - All variants

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

1.1 Product identifier

Product name : TEKNODUR 0050 - 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 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. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Date of issue/Date of revision	: 02/02/2024 Date of previous issue : 02/02/2024 Version : 14 1/35

SECTION 2: Hazards identification

Hazardous ingredients	1	Contains: n-Butyl acetate; Solvent naphtha (petroleum), light aromatic and 2-Methoxy-1-methylethyl acetate
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥25 - ≤50	Carc. 2, H351 (inhalation)	-	[1] [*]
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]
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]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤9.3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
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SECTION 3: Composition/information on ingredients					
	CAS: 100-41-4 Index: 601-023-00-4	(hearing organs) (oral, inhalation) Asp. Tox. 1, H304 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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \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
Inhalation	:	minutes. Get medical attention if irritation occurs. 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	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

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

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SECTION 4: First aid measures

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: Firefig	hting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.

Unsuitable extinguishing : Do not use water jet. media

5.2 Special hazards arising from 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 sulfur oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	СС	entainment 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.

SECTION 6: Accidental release measures

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). Do not ingest. Avoid contact with eyes, skin and clothing. 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 product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations
Industrial sector specific
solutions

- : Not available.
- : 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.
Yulono.	
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.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 550 mg/m ³ , 8 times per shift, 5 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbe
	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.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
- Butyr doolato	STEL: 712 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Kylene	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.
2-Methoxy-1-methylethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Thulbanzana	STEL: 550 mg/m ³ 15 minutes.
Ethylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 87 mg/m³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/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.
(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.

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SECTION 8: Exposure controls/personal protection Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of 2-Methoxy-1-methylethyl acetate Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 275 mg/m³ 8 hours. Limit value 15 min: 550 mg/m³ 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/m³ 8 hours. Limit value 15 min: 545 mg/m³ 15 minutes. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ **Xylene** STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Solvent naphtha (petroleum), light aromatic Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia). ELV: 100 ppm ELV: 400 mg/m³ 2-Methoxy-1-methylethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m³ 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/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

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through skin.

through skin.

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

STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.

STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

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

TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours.

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours.

mixed isomers] Absorbed through skin.

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

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

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

	TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
(ylene	Government regulation of Czech Republic PEL/NPK-P (Czecl
	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.
olvent naphtha (petroleum), light aromatic	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [Nafta solvents]
	TWA: 200 mg/m ³ 8 hours.
	STEL: 1000 mg/m ³ 15 minutes.
-Methoxy-1-methylethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 270 mg/m ³ 8 hours. TWA: 49.14 ppm 8 hours.
	STEL: 550 mg/m^3 15 minutes.
	STEL: 100.1 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.
Dutul acetata	STEL: 113.5 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
(ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes,
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours. TWA: 109 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
-Methoxy-1-methylethyl acetate	Working Environment Authority (Denmark, 6/2022).
	[2-Methoxy-1-methylethyl acetate] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 550 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
D. f. L. s. f. f.	STEL: 100 ppm 15 minutes.
-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
(ylene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). [Xylenes] Absorbed through skin.

•	personal protection
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m ³ 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia,
ztryibenzene	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.
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/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 occupation
	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.
2-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 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.
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
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.
	Institute of Occupational Health, Ministry of Social Affairs
Solvent nanhtha (netroleum), light aromatic	
Solvent naphtha (petroleum), light aromatic	(Finland, 10/2020).
Solvent naphtha (petroleum), light aromatic	$T_{M/A}$, 100 m m/m ³ 0 k - ····-
	TWA: 100 mg/m ³ 8 hours.
	Institute of Occupational Health, Ministry of Social Affairs
Solvent naphtha (petroleum), light aromatic 2-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.
	Institute of Occupational Health, Ministry of Social Affairs
	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours.
	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours.
	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.
	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.

ECTION 8: Exposure controls/p	
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 880 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.
(ylene	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.
Nelvent nenkthe (netveleven) linkt evenetie	TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	Ministry of Labor (France, 10/2022). [hydrocarbons C6-C12]
	Notes: Permissible limit values (circulars)
	TWA: 1000 mg/m ³ 8 hours. Form: Vapour
Matheway 1 meeths dethad exertete	STEL: 1500 mg/m ³ 15 minutes. Form: Vapour
-Methoxy-1-methylethyl acetate	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
thulhanzana	TWA: 50 ppm 8 hours.
thylbenzene	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.
-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.
Mana	PEAK: 124 ppm 15 minutes.
ylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed throug skin.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.
-Methoxy-1-methylethyl acetate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 270 mg/m ³ 8 hours.
	PEAK: 270 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 50 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 50 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 ma/m³ 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes. Ethylbenzene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. 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. 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. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit 2-Methoxy-1-methylethyl acetate values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **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. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). 2-Methoxy-1-methylethyl acetate TWA: 275 mg/m³ 8 hours. PEAK: 550 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.

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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.
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.
2-Methoxy-1-methylethyl acetate	TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 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.
	TWA: 50 ppm 8 hours.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
Xylene	OELV-15min: 723 mg/m ³ 15 minutes. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
Aylerie	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.
2-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 275 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 550 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m ³ 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/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
2 Motheway 1 methydethyd ac stat	Short Term: 442 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
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SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure control	
Ethylbenzene	 Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m³ 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m³ 15 minutes.
n-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.
Xylene	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.
2-Methoxy-1-methylethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.
Ethylbenzene	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. STEL: 884 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.
Xylene	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.
2-Methoxy-1-methylethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 250 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
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SECTION 8: Exposure controls/personal protection Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

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

Grand-Duchy Regulation 2016. Chemical agents. Annex I

Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin.

(Luxembourg, 3/2021). Absorbed through skin.

EU OEL (Europe, 1/2022). Notes: list of indicative

EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational

EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

Ministry of Social Affairs and Employment, Legal limit values

Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed

of indicative occupational exposure limit values

of indicative occupational exposure limit values

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.

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.

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

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

(Netherlands, 12/2022).

through skin.

OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.

OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours.

2-Methoxy-1-methylethyl acetate

Ethylbenzene

n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

n-Butyl acetate

Xylene

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2-Methoxy-1-methylethyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).
	OEL, 8-h TWA: 550 mg/m ³ 8 hours.
	OEL, 8-h TWA: 100 ppm 8 hours.
Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). Absorbed through skin.
	OEL, 8-h TWA: 215 mg/m ³ 8 hours.
	STEL,15-min: 430 mg/m ³ 15 minutes.
	STEL,15-min: 97.3 ppm 15 minutes.
n-Butyl acetate	FOR-2819-1246-4358 (NBAWAY,1722022).
	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.
Xylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers]
-	Absorbed through skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 108 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 50 ppm 8 hours.
	TWA: 270 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.
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.
	STEL: 200 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl 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: 260 mg/m ³ 8 hours.
	STEL: 520 mg/m ³ 15 minutes.
Ethylbenzene	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m ³ 15 minutes.
	STEL: 400 mg/m³ 15 minutes.

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n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 150 ppm 8 hours.
Wulana.	STEL: 200 ppm 15 minutes.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours.
	STEL: 150 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
Ethylbenzene	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.
	Short term: 150 ppm 15 minutes.
(ylene	HG 1218/2006, Annex 1, with subsequent modifications and
, ,	additions (Romania, 3/2021). [Xylene] Absorbed through ski
	VLA: 221 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 442 mg/m ³ 15 minutes.
	Short term: 100 ppm 15 minutes.
Solvent naphtha (petroleum), light aromatic	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [Solvent naphtha] Absorbed
	through skin. VLA: 100 mg/m ³ 8 hours.
	Short term: 200 mg/m³ 15 minutes.
2-Methoxy-1-methylethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: $275 \text{ mg/m}^3 8 \text{ hours.}$
	VLA: 50 ppm 8 hours.
	Short term: 550 mg/m ³ 15 minutes.
	Short term: 100 ppm 15 minutes.
Ethylbenzene	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. Short term: 884 mg/m ³ 15 minutes.
	Short term: 200 ppm 15 minutes.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates]
	TWA: 241 mg/m ³ , (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
(ylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[xylene, mixed isomers] Absorbed through skin.
	TWA: 221 mg/m ³ , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes.
2-Methoxy-1-methylethyl acetate	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
-יווטנווטאין- ו-וווטנוויוו מטטנמנט	Absorbed through skin.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.

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	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
ר-Butyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes.
	KTV: 150 ppm, 4 times per shift, 15 minutes.
(ylene	Regulation on protection of workers from the risks related t
(yiene	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.
-Methoxy-1-methylethyl acetate	KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021
	Absorbed through skin.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 550 mg/m ³ , 4 times per shift, 15 minutes.
thulbanzana	KTV: 100 ppm, 4 times per shift, 15 minutes.
thylbenzene	Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 884 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 200 ppm, 4 times per shift, 15 minutes.
-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.
ylene	STEL: 723 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain,
yiene	4/2022). [Xylene, mixture of isomers] Absorbed through ski
	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
-Methoxy-1-methylethyl acetate	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
thylbenzene	STEL: 550 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
-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.
-Methoxy-1-methylethyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 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.
-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.
(ylene	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.
-Methoxy-1-methylethyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
thulbonzono	STEL: 275 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.
	STEL: 220 mg/m ³ 15 minutes.
Dutid tot-	-
-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: 124 mg/m 8 hours.
ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,r
ylerie	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.
-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.
thylbenzene	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.
thyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
-	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 734 mg/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection

Biological exposure indices

BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Samplin one year. No exposure indices known. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bugaria, 6/2021) Notes significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylgyo 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 (Croatia, 10/2018) (xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 15.0 g/l creatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: dur exposure. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: dur exposure. No exposure indices known. Sg/l creatinine, almond acid [in urine]. Sampling time: dur exposure. No exposure indices known. Government regulation of Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, methylhipput (in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, methylhipput (in urine]. Sampling time: end of the shift. Biological Limit values: 1400	Product/ingredient name	Exposure indices
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 phenylglyo 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 LM (Croatia, 10/2016) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.6 and/. xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, tylene [in blood]. Sampling time: at the end of the work shift. BEI: 5 dg creatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 5 dg JO reatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 5 dg JO reatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: exposure. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: end of the working week No exposure indices known. Xylene Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological Limit v	e	BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one yea BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time:
Health - Ordinance No 13/2003. (Bujgaria, 6/2021) Notesignificant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyo acid – in total [in urine]. Sampling time: atter the end of the exposure or the end of the work shift. Xylene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 gg/l, atylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 gg/l, atylene [in blood]. Sampling time: at the end of the work shift. BEI: 1.6 agl/l, atylene [in blood]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, sthylbenzene [in blood]. Sampling time: durexposure. BEI: 1.5 mg/l, athylbenzene [in blood]. Sampling time: exposure. BEI: 1.5 gg/l creatinine, almond acid [in urine]. Samp time time: at the end of the work shift and at the end of the work week. BEI: 1.5 gg/l creatinine, almond acid [in urine]. Sampling time: exposure. No exposure indices known. Ko exposure Tests (Czech Republic Limit Values Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 140 µmol/mol creatinine, methylhippur [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Value	(posure indices known.	
(Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.4.3 µmol/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. 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: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 gg/creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. 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 work week. No exposure indices known. Xylene Government regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X]: Biological limit values: 1400 µmol/mmol creatinine, methylhipuu [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Values Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic, 9/2015) [X]: Biological limit values: 1100 µmol/mmol creatinine, methylhippuu [in urine]. Sampling time: end of the shift.	benzene	BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the
(Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: durexposure. 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 work week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: durexex. No exposure indices known. Xylene Government regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 1200 mg/g creatinine, methylhacid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippul [in urine]. Sampling time: end of the shift. Biological Exposure Tests (Czech Republic Limit Values Biological limit values: 1400 mg/g creatinine, methylhippul [in urine]. Sampling time: end of the shift. Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 100 umol/mmol creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont acid urine]. Sampling	e	 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
No exposure indices known.XyleneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 820 µmol/mmol creatinine, methylh acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhipput [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological limit values: 1400 mg/g creatinine, methylhipput [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological limit values: 1100 µmol/mmol creatinine, almon [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known.Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time	Jenzene	 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
XyleneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 820 µmol/mmol creatinine, methyl acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippur [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1400 mg/g creatinine, almond creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1100 µmol/mmol creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known. XyleneInstitute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time	xposure indices known.	
Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almon [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known.Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time		Biological limit values: 1400 mg/g creatinine, methylhippuric acid
No exposure indices known. No exposure indices known. Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time	benzene	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. No exposure indices known. Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time	cposure indices known.	
Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time	opsure indices known.	
Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time	opsure indices known.	
		BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at th
Ethylbenzene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020)	penzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

SECTION 8: Exposure controls/personal protection 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.

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known. Xylene

Ethylbenzene

No exposure indices known. No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

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shift.

ceases.

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5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].

BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].

BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time:

Sampling time: at the end of the shift.

Sampling time: at the end of the shift.

NAOSH (Ireland, 1/2011) [Xylene]

NAOSH (Ireland, 1/2011)

Sampling time: not critical.

end of shift at end of workweek.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

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

BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure

screening test if a quantitative test is not practical; or as a

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:

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

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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•	e controls/personal protection
No exposure indices known.	
No exposure indices known.	
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/l, methylhippuric acid [in urine]. Sampling time: end of shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
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 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: 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: 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.
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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.
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 [ir 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 E as va at of (V fc dd	eference should be made to monitoring standards, such as the following: uropean Standard EN 689 (Workplace atmospheres - Guidance for the ssessment of exposure by inhalation to chemical agents for comparison with limit alues and measurement strategy) European Standard EN 14042 (Workplace tmospheres - Guide for the application and use of procedures for the assessment f exposure to chemical and biological agents) European Standard EN 482 Workplace atmospheres - General requirements for the performance of procedures or the measurement of chemical agents) Reference to national guidance pocuments for methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Populatio	n 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	
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	300 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Local
		Inhalation			
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required.

	DNEL	Short term	600 mg/m ³	Workers	Systemic	
		Inhalation	Ū		,	
	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	
Xylene	DNEL	Inhalation Long term	65.3 mg/m ³	General	Local	
		Inhalation	Ŭ	population		
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic	
	DNEL	Long term	221 mg/m³	Workers	Local	
	DNEL	Inhalation Long term Oral	12.5 mg/	General	Systemic	
			kg bw/day	population		
	DNEL	Long term	65.3 mg/m ³	General	Systemic	
	DNEL	Inhalation Long term Dermal	125 mg/kg	population General	Systemic	
			bw/day	population	-	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic	
	DNEL	Short term	442 mg/m³	Workers	Local	
	DNEL	Inhalation Short term	442 mg/m ³	Workers	Systemic	
Solvent naphtha (petroleum), light	DNEL	Inhalation	0.41 mg/m ³	General	Systemic	
aromatic	DINEL	Long term Inhalation	0.41 mg/m ⁻	population	Systemic	
aromatic	DNEL	Long term	1.9 mg/m³	Workers	Systemic	
	DNEL	Inhalation Long term	178.57 mg/		Local	
	DNEL	Inhalation Short term	m ³ 640 mg/m ³	population General	Local	
		Inhalation		population		
	DNEL	Long term Inhalation	837.5 mg/ m³	Workers	Local	
	DNEL	Short term Inhalation	1066.67	Workers	Local	
	DNEL	Short term	mg/m³ 1152 mg/	General	Systemic	
		Inhalation	m ³	population	-,	
	DNEL	Short term	1286.4 mg/	Workers	Systemic	
2 Mathavy 1 mathylathyl aretet		Inhalation	m^{3}	Conoral		
2-Methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m³	General population	Local	
	DNEL	Long term	33 mg/m³	General	Systemic	
	DNEL	Inhalation Long term Oral	36 mg/kg	population General	Systemic	
		-	bw/day	population	-	
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	550 mg/m ³	Workers	Local	
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic	
Ethylbenzene	DNEL	Long term Oral	bw/day 1.6 mg/kg	General	Systemic	
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic	
		Inhalation		population		

SECTION 8: Exposure controls/personal protection							
DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic			
DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic			
DNEL	Short term Inhalation	293 mg/m ³	Workers	Local			
DMEL	Long term Inhalation	442 mg/m ³	Workers	Local			
DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic			

PNECs

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
	> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
	Wash hands before breaks and immediately after handling the product.
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.
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SECTION 8: Exposure controls/personal protection

	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

Appearance	
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
n-Butyl acetate	126	258.8	OECD 103
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

Flammability	: Not available.
Lower and upper explosion limit	: Lower: 0.8% Upper: 7.6%
Flash point	: Closed cup: 32°C (89.6°F)

Auto-ignition temperature

	Ingredient name	°C	°F	Method
	Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
	2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
D	ecomposition temperature : Not ava	ilable.		

рН	Not available.
Viscosity	: Kinematic (40°C): >20.5 mm ² /s
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/	: Not applicable.

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Vapour pressure

water

	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.	1.5	DIN EN 13016-2	2			
Ethylbenzene	9.30076	1.2					
Relative density	: Not	available.					
Density	: 1.5	g/cm³					
Vapour density	: Not	available.					
Explosive properties	: Not	available.					
Oxidising properties	: Not	available.					
Particle characteristics							
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SECTION 9: Physical and chemical properties

Median particle size

: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Oral	Rat	8400 mg/kg	-
2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 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	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Dermal	15021.32 mg/kg
Inhalation (vapours)	123.17 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
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	-
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SECTION 11: Toxicol	ogical information				
Solvent naphtha (petroleum), light aromatic Ethylbenzene	Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	- - -	mg 24 hours 100 uL 500 mg 24 hours 15 mg	
Conclusion/Summary	: Based on available data,	the classification	n criteria a	are not met.	•
<u>Sensitisation</u>					
Conclusion/Summary	: Based on available data,	the classification	n criteria a	are not met.	
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data,	the classification	n criteria a	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	1	Based on available data, the classification criteria are not met.
Reproductive toxicity		
Conclusion/Summary	1	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 toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-Methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

or exposure		
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	;	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data.

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SECTION 11: Toxicological information

Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting
	headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immedia	te 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.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effo	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
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
Solvent naphtha (petroleum), light aromatic	Acute EC50 3.2 mg/l	Daphnia	48 hours
5	Acute LC50 9.2 mg/l	Fish	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

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SECTION 12: Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
n-Butyl acetate	2.3	-	Low	
Xylene	3.12	8.1 to 25.9	Low	
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High	
2-Methoxy-1-methylethyl acetate	1.2	-	Low	
Ethylbenzene	3.6	-	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: Dispo	osal considerations
13.1 Waste treatment meth	nods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*, 200127*
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

	AD	R/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263		UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT		PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3		3	3	3
14.4 Packing group	111		111	Ш	111
14.5 Environmental hazards	No.		No.	No.	No.
Additional informa ADR/RID		packagin	<u>liquid exception</u> This gs up to 450 L accord code (D/E)		s not subject to regulation in
ADN	:		liquid exception This gs up to 450 L accord		s not subject to regulation in
IMDG	:	Viscous	ncy schedules liquid exception This lgs up to 450 L accord		s not subject to regulation in
14.6 Special precau user	itions for :	upright a		t persons transporting th	n closed containers that are ne product know what to do i
14.7 Maritime trans bulk according to I instruments		Not relev	ant/applicable due to r	nature of the product.	

SECTION 15: Regulatory information

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

<u>Annex XIV</u>

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

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Industrial emissions	: Not listed		
(integrated pollution prevention and control) -			
Water			
Explosive precursors	: Not applicable.		
Ozone depleting substan	<u>ces (1005/2009/EU)</u>		
Not listed.			
Prior Informed Consent (<u>PIC) (649/2012/EU)</u>		
Not listed.			
Persistent Organic Pollut	ants		
Not listed.			
Seveso Directive			
This product is controlled u	nder the Seveso Directive.		
Danger criteria			
Category			
P5c			
lational regulations			
Austria			
VbF class	: A II		
	Very dangerous flammable liquid.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 11		
Distance and a			
<u>Denmark</u>	: II-1		
	. 11-1		
Danish fire class			
Danish fire class		Annex I Section A	Annex I Section B
Denmark Danish fire class Executive Order No. 1795 Ingredient name titanium dioxide Ethylbenzene		Annex I Section A Listed Listed	Annex I Section B

tection 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: 3-3

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

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

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or

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SECTION 15: Regulatory information

	···· · · · · · · · · · · · · · · · · ·	
	knife, brush, roller, etc, for pre- and post-treatments in ca existing* facility type, if the operator is inside the spray zo	
	- Air-supplied half mask, coveralls and eye protection mu	st be worn.
	When spraying in existing* spray booths, if the operator is	s outside the spray zone.
	- Air-supplied full mask, arm protectors and apron must b	e worn.
	During non-atomising spraying in existing* facilities of the cabin and spray-booth type where the operator is working	
	- Air-supplied full mask, arm protectors and apron must b	e worn.
	During all spraying where atomisation occurs in cabins or operator is inside the spray zone and during spraying out or booth.	
	- Air-supplied full mask, coveralls and hood must be worr	ì.
	Drying: Items for drying/drying ovens that are temporari rack trolleys, etc, must be equipped with a mechanical ex fumes from wet items from passing through workers' inha	haust system to prevent
	Polishing: When polishing treated surfaces, a mask wit When machine grinding, eye protection must be worn. W worn.	
	Caution The regulations contain other stipulations in add	dition to the above.
	*See Regulations.	
Restrictions on use	Not to be used by professional users below 18 years of a Working Environment Authorities Executive Order regard	
List of undesirable substances	Not listed	
Carcinogenic waste	Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer risk	
Finland		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	XyleneRSolvent naphtha (petroleum), light aromaticR2-Methoxy-1-methylethyl acetateR	G 84 G 4bis, RG 84 G 84 G 84 G 84
Reinforced medical surveillance	Act of July 11, 1977 determining the list of activities which medical surveillance: not applicable	
Germany		
Storage class (TRGS 510)	3	
Hazardous incident ordinal		
This product is controlled und	r the Germany Hazardous Incident Ordinance.	
Danger criteria		
Category		Reference number
P5c		1.2.5.3
Hazard class for water	2	1
Technical instruction on air quality control	TA-Luft Number 5.2.5: 29.1% TA-Luft Class I - Number 5.2.5: 1.6%	

SECTION 15: Regulatory information AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water. **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 Mutagen** Reproductive **Reproductive** Harmful via Carcinogen toxicity toxicity breastfeeding **Fertility Development Development 2** xylene -Solvent naphtha Listed Listed -(petroleum), light arom. : Z(1) Non biodegradable substances with hazardous properties for humans and the Water Discharge Policy environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ (ABM) toxicity or persistence). Decontamination effort: Z Norway **Sweden** Flammable liquid class : 2b (SRVFS 2005:10) **Switzerland VOC content** : VOC (w/w): 30.8% **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. This product contains substances for which Chemical Safety Assessments are still 15.2 Chemical safety assessment required. SECTION 16: Other information Indicates information that has changed from previously issued version.

	5 1 5
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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]

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Classification				Justification
Flam. Liq. 3, H226				On basis of test data
STOT SE 3, H336				
Aquatic Chronic 3,	H412			Calculation method
Full text of abbrev	iated H state	<u>ments</u>		
		ble liquid and vapour.		
		uid and vapour.		
		swallowed and enters ain	ways.	
		tact with skin.		
	auses skin ir			
		s eye irritation.		
	larmful if inha			
		piratory irritation.		
		wsiness or dizziness. causing cancer.		
		nage to organs through p	rolongod or ro	posted expegure
		ic life with long lasting effe		pealed exposure.
		atic life with long lasting en		
		osure may cause skin dry		na
Full text of classif	· ·			
	-			
Acute Tox. 4		TOXICITY - Category 4		Ostansen 0
Aquatic Chronic 2		ERM (CHRONIC) AQUA		
Aquatic Chronic 3		ERM (CHRONIC) AQUA		- Calegory 3
Asp. Tox. 1 Carc. 2		TION HAZARD - Categor OGENICITY - Category 2		
Eye Irrit. 2		S EYE DAMAGE/EYE IR		ategory 2
Flam. Liq. 2		ABLE LIQUIDS - Category		
Flam. Liq. 3		ABLE LIQUIDS - Category		
Skin Irrit. 2		RROSION/IRRITATION		
STOT RE 2				EATED EXPOSURE - Category 2
STOT SE 3				LE 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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