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

SAFETY DATA SHEET



ALPOCRYL KLARLACK 1495-95 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier Product name

: ALPOCRYL KLARLACK 1495-95 - FARBLOS-INCOLORE-COLOURLESS

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

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

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

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

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

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

2.2 Label elements

Hazard pictograms



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

SECTION 2: Hazards identification

SECTION 2: Hazarus	Identification
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 Contains: n-Butyl acetate; EO bis(benztriazolyl)phenylpropionat; bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate
Supplemental label elements	:
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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤8	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]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤1.8	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation)	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

SECTION 3: Compo	osition/informat	ion on ir	gredients		
			Asp. Tox. 1, H304		
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	REACH #: 01-2119491304-40 EC: 255-437-1 CAS: 41556-26-7	≤0.93	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 280-060-4 CAS: 82919-37-7	≤0.24	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[1]

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

the second se	
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Flammable liquid and vapour. Runoff to sewer may create fire or explosion haza In a fire or if heated, a pressure increase will occur and the container may burst, we the risk of a subsequent explosion. This material is harmful to aquatic life with lo lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	with ng
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incider 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.	nt if
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 f chemical incidents.	for

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

SECTION 7: Handling and storage

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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

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

7.3 Specific end use(s)

: Not available.

Recommendations Industrial sector specific : Not available. solutions

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

Exposure limit values
Regulation on Limit Values - MAC (Austria, 4/2021) [Butylacetat alle Isomeren außer tert-Butylacet] CEIL: 480 mg/m ³ . CEIL: 100 ppm. TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm.
Regulation on Limit Values - MAC (Austria, 4/2021) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m ³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m ³ .
Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m ³ . CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m ³ 8 times per shift.
Regulation on Limit Values - MAC (Austria, 4/2021) d. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m ³ . PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m ³ 4 times per shift.
Limit values (Belgium, 12/2023) [butylacetaat] STEL 15 minutes: 712 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m ³ . TWA 8 hours: 50 ppm.
Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ .

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Ethylbenzene	Limit values (Belgium, 12/2023) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 87 mg/m ³ .
	STEL 15 minutes: 125 ppm.
	STEL 15 minutes: 551 mg/m ³ .
Toluene	Limit values (Belgium, 12/2023) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 77 mg/m ³ .
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 384 mg/m ³ .
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 4/2024)
	Limit value 8 hours: 241 mg/m³. Limit value 15 minutes: 723 mg/m³.
	Limit value 15 minutes: 150 ppm.
	Limit value 8 hours: 50 ppm.
Xylene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]
	Absorbed through skin.
	Limit value 8 hours: 221 mg/m ³ .
	Limit value 15 minutes: 442 mg/m³.
	Limit value 15 minutes: 100 ppm.
	Limit value 8 hours: 50 ppm.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed
	through skin. Limit value 8 hours: 435 mg/m³.
	Limit value 15 minutes: 545 mg/m ³ .
Toluene	Ministry of Labour and Social Policy and the Ministry of
louene	Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed
	through skin.
	Limit value 15 minutes: 384 mg/m³.
	Limit value 8 hours: 192 mg/m³.
	Limit value 15 minutes: 100 ppm.
	Limit value 8 hours: 50 ppm.
n-Butyl acetate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)
	(Croatia, 12/2023)
	STELV 15 minutes: 723 mg/m ³ .
	STELV 15 minutes: 150 ppm.
	ELV 8 hours: 241 mg/m ³ . ELV 8 hours: 50 ppm.
Solvent naphtha (petroleum), light aromatic	Ordinance on the protection of workers from exposure to
	hazardous chemicals at work, exposure limit values (Annex I)
	(Croatia)
	ELV: 100 ppm.
	ELV: 400 mg/m ³ .
Xylene	Ordinance on the protection of workers from exposure to
-	hazardous chemicals at work, exposure limit values (Annex I)
	(Croatia, 12/2023) [ksilen] Absorbed through skin.
	STELV 15 minutes: 442 mg/m ³ .
	STELV 15 minutes: 100 ppm.
	ELV 8 hours: 221 mg/m ³ .
Ethydhanzana	ELV 8 hours: 50 ppm.
Ethylbenzene	Ordinance on the protection of workers from exposure to
	hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin.
	STELV 15 minutes: 884 mg/m ³ .
	STELV 15 minutes: 200 ppm.
	ELV 8 hours: 442 mg/m^3 .
	ELV 8 hours: 100 ppm.
Toluene	ELV 8 hours: 100 ppm. Ordinance on the protection of workers from exposure to

	hazardous chemicals at work, exposure limit values (Annex I)(Croatia, 12/2023)Absorbed through skin.STELV 15 minutes: 384 mg/m³.STELV 15 minutes: 100 ppm.ELV 8 hours: 192 mg/m³.ELV 8 hours: 50 ppm.
n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m ³ .
Xylene	Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ .
Ethylbenzene	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 884 mg/m ³ . TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm.
Toluene	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m ³ .
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 723 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.
Solvent naphtha (petroleum), light aromatic	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [nafta solventní] TWA 8 hours: 200 mg/m ³ . STEL 15 minutes: 1000 mg/m ³ .
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen] Absorbed through skin. TWA 8 hours: 200 mg/m ³ . TWA 8 hours: 45.33 ppm. STEL 15 minutes: 400 mg/m ³ . STEL 15 minutes: 90.66 ppm.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 200 mg/m ³ . TWA 8 hours: 45.33 ppm. STEL 15 minutes: 500 mg/m ³ . STEL 15 minutes: 113.32 ppm.
Toluene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 192 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m ³ . STEL 15 minutes: 100 ppm.
ate of issue/Date of revision : 23/04/2025	Date of previous issue: 28/03/2025Version: 1.058/44NCOLORE-COLOURLESSLabel No : 114922

SECTION 8: Exposure controls/personal protection Working Environment Authority (Denmark, 3/2024) n-Butyl acetate [butylacetat, alle isomerer] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. **Xylene** Working Environment Authority (Denmark, 3/2024) [xylen, alle isomere] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm. Working Environment Authority (Denmark, 3/2024) K. Absorbed Ethylbenzene through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 217 mg/m³. STEL 15 minutes: 434 mg/m³. STEL 15 minutes: 100 ppm. Toluene Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. **Xylene** Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m³. TWA 8 hours: 200 mg/m³. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. n-Butyl acetate EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. EU OEL (Europe, 1/2022) Absorbed through skin. Ethylbenzene TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm.

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	STEL 15 minutes: 884 mg/m ³ .
Toluene	
Toluene	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 192 mg/m ³ .
	TWA 8 hours: 50 ppm.
	STEL 15 minutes: 384 mg/m ³ .
	STEL 15 minutes: 100 ppm.
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021)
	TWA 8 hours: 150 ppm.
	TWA 8 hours: 720 mg/m ³ .
	STEL 15 minutes: 200 ppm. STEL 15 minutes: 960 mg/m ³ .
Solvent naphtha (petroleum), light aromatic	Institute of Occupational Health, Ministry of Social Affairs
olvent haphtha (peroleum), light alomatic	(Finland, 10/2020)
	TWA 8 hours: 100 mg/m ³ .
(ylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) [Ksyleeni] Absorbed through skin.
	STEL 15 minutes: 440 mg/m ³ .
	TWA 8 hours: 220 mg/m ³ .
	TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) Absorbed through skin.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m ³ .
	STEL 15 minutes: 200 ppm.
	STEL 15 minutes: 880 mg/m ³ .
oluene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) Absorbed through skin , Ototoxicant.
	TWA 8 hours: 25 ppm. TWA 8 hours: 81 mg/m ³ .
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 380 mg/m ³ .
n-Butyl acetate	Ministry of Labor (France, 6/2024)
	TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code)
	TWA 8 hours: 241 mg/m ³ . Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code) STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit value
	(article R. 4412-149 of the Labor Code)
	STEL 15 minutes: 723 mg/m ³ . Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
Solvent naphtha (petroleum), light aromatic	Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12
	TWA 8 hours: 1000 mg/m ³ . Form: Vapour. Notes: Permissible
	limit values (circulars)
	STEL 15 minutes: 1500 mg/m³. Form: Vapour. Notes: Permissible limit values (circulars)
(ylene	Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes
yielle	purs] Absorbed through skin.
	STEL 15 minutes: 442 mg/m ³ . Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
	STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit value
	(article R. 4412-149 of the Labor Code)
	TWA 8 hours: 221 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code)
Ethylbenzene	Ministry of Labor (France, 6/2024) Absorbed through skin.
	TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code)
	TWA 8 hours: 88.4 mg/m ³ . Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code)

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		STEL 15 minutes: 442 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	Toluene	Ministry of Labor (France, 6/2024) Repr 2. Absorbed through skin , Ototoxicant. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 76.8 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 384 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	n-Butyl acetate	 TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 300 mg/m³. TWA 8 hours: 62 ppm. PEAK 15 minutes: 600 mg/m³. PEAK 15 minutes: 124 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 480 mg/m³. PEAK 15 minutes: 960 mg/m³ 4 times per shift [Interval: 1 hour].
	Xylene	 TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2023) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour].
	Ethylbenzene	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m³. PEAK 15 minutes: 176 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm.
	Toluene	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³ 4 times per shift [Interval: 1 hour].
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n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 50 ppm.
	TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ .
Xylene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin. TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m ³ .
Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m ³ . STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m ³ .
Toluene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m ³ .
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Sensitiser. TWA 8 hours: 241 mg/m ³ . PEAK 15 minutes: 723 mg/m ³ . PEAK 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol izomerek keveréke] Absorbed through skin. TWA 8 hours: 221 mg/m ³ . PEAK 15 minutes: 442 mg/m ³ . PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
Ethylbenzene	 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 442 mg/m³. PEAK 15 minutes: 884 mg/m³. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm.
Toluene	 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 192 mg/m³. PEAK 15 minutes: 384 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [bútýlasetat, allir ísómerar] TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m ³ . STEL 15 minutes: 150 ppm.
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Xýlen, allir ísómerar] Absorbed through skin. STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m ³ . TWA 8 hours: 25 ppm.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin.
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ECTION 6: Exposure C	ontrols/personal protection
	STEL 15 minutes: 884 mg/m ³ . STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m ³ .
Toluene	TWA 8 hours: 50 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 188 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m ³ . TWA 8 hours: 25 ppm.
n-Butyl acetate	 NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m³. OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 mg/m³.
Xylene	 NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m³.
Ethylbenzene	 NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³.
Toluene	 NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m³.
n-Butyl acetate	EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm.
Xylene	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) [Xilene, isomeri misti, puro] Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m ³ . Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m ³ .
Ethylbenzene	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 100 ppm. Limit value 8 hours: 442 mg/m ³ . Short Term 15 minutes: 200 ppm. Short Term 15 minutes: 884 mg/m ³ .
Toluene	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 192 mg/m ³ .
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SECTION 8: Exposure controls/personal protection Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) n-Butyl acetate TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) **Xylene** [Ksilols] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Ethylbenzene Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Toluene Absorbed through skin. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 150 mg/m³. TWA 8 hours: 14 ppm. STEL 15 minutes: 40 ppm. n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) **Xylene** [ksilenas, mišrūs izomerai, grynas] Absorbed through skin. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Ethylbenzene Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr. Toluene Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³.

Xylene

Ethylbenzene

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

TWA 8 hours: 100 ppm.

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(Luxembourg, 3/2021) Absorbed through skin.

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]

Grand-Duchy Regulation 2016. Chemical agents. Annex I

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SECTION 8: Exposur	e controls/personal protection
Toluene	TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ . Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin.
	STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m ³ .
n-Butyl acetate	EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm.
Xylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ .
Ethylbenzene	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .
Toluene	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 192 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m ³ . STEL 15 minutes: 100 ppm.
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 723 mg/m ³ . STEL 15 minutes: 150 ppm.
Xylene	TWA 8 hours: 50 ppm. Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] Absorbed through skin. TWA 8 hours: 210 mg/m ³ . STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm.
Ethylbenzene	TWA 8 hours: 47.5 ppm. Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 215 mg/m ³ . STEL 15 minutes: 430 mg/m ³ . STEL 15 minutes: 97.3 ppm.
Toluene	TWA 8 hours: 48.6 ppm. Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 150 mg/m ³ . STEL 15 minutes: 384 mg/m ³ . STEL 15 minutes: 100 ppm. TWA 8 hours: 39 ppm.
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022) STEL 15 minutes: 723 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm.
Xylene	FOR-2011-12-06-1358 (Norway, 12/2022) [xylen] Absorbed through skin.
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	TWA 8 hours: 25 ppm.
	TWA 8 hours: 108 mg/m ³ .
Ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2022) Carc. Absorbed throug
	skin.
	TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m ³ .
Toluene	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin
louene	TWA 8 hours: 25 ppm.
	TWA 8 hours: 94 mg/m ³ .
n-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy
	of June 12, 2018 on the maximum permissible concentrations
	and intensities of factors harmful to health in the work
	environment (Journal of Laws of 2018, item 1286) (Poland,
	8/2023) TWA 8 hours: 240 mg/m ³ .
	STEL 15 minutes: 720 mg/m^3 .
Xylene	Regulation of the Minister of Family, Labor and Social Policy
	of June 12, 2018 on the maximum permissible concentrations
	and intensities of factors harmful to health in the work
	environment (Journal of Laws of 2018, item 1286) (Poland,
	8/2023) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.
	TWA 8 hours: 100 mg/m^3 .
	STEL 15 minutes: 200 mg/m ³ .
Ethylbenzene	Regulation of the Minister of Family, Labor and Social Policy
	of June 12, 2018 on the maximum permissible concentrations
	and intensities of factors harmful to health in the work
	environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.
	TWA 8 hours: 200 mg/m ³ .
	STEL 15 minutes: 400 mg/m ³ .
Toluene	Regulation of the Minister of Family, Labor and Social Policy
	of June 12, 2018 on the maximum permissible concentrations
	and intensities of factors harmful to health in the work
	environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.
	TWA 8 hours: 100 mg/m^3 .
	STEL 15 minutes: 200 mg/m ³ .
n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014)
	TWA 8 hours: 150 ppm.
	STEL 15 minutes: 200 ppm.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [xileno
	(isómeros o, m & p)] A4. TWA 8 hours: 100 ppm.
	STEL 15 minutes: 150 ppm.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) A3.
	TWA 8 hours: 20 ppm.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) A4.
	TWA 8 hours: 20 ppm.
n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2024) VLA 8 hours: 241 mg/m ³ .
	VLA 8 hours: 241 mg/m². VLA 8 hours: 50 ppm.
	Short term 15 minutes: 723 mg/m ³ .
	Short term 15 minutes: 150 ppm.
Solvent naphtha (petroleum), light aromatic	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2024) [Solvent nafta] Absorbed through
	skin.
	VLA 8 hours: 100 mg/m ³ . Short term 15 minutes: 200 mg/m ³ .
Xylene	HG 1218/2006, Annex 1, with subsequent modifications and
· ·	additions (Romania, 3/2024) [xilen] Absorbed through skin.

	VLA 8 hours: 221 mg/m ³ . VLA 8 hours: 50 ppm. Short term 15 minutes: 442 mg/m ³ . Short term 15 minutes: 100 ppm.
Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 442 mg/m ³ . VLA 8 hours: 100 ppm. Short term 15 minutes: 884 mg/m ³ . Short term 15 minutes: 200 ppm.
Toluene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R2. Absorbed through skin. VLA 8 hours: 192 mg/m ³ . VLA 8 hours: 50 ppm. Short term 15 minutes: 384 mg/m ³ . Short term 15 minutes: 100 ppm.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 7/2024) [butylacetáty] Inhalation sensitiser. TWA 8 hours: 241 mg/m ³ (Butyl acetates). TWA 8 hours: 50 ppm (Butyl acetates). STEL 15 minutes: 723 mg/m ³ (Butyl acetates). STEL 15 minutes: 150 ppm (Butyl acetates).
(ylene	Government regulation SR c. 355/2006 (Slovakia, 7/2024) [xylén, zmiešané izoméry] Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 221 mg/m ³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m ³ (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 442 mg/m ³ . TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m ³ . STEL 15 minutes: 200 ppm.
oluene	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 192 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m ³ . STEL 15 minutes: 100 ppm.
n-Butyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm. KTV 15 minutes: 723 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
Kylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen] Absorbed through skin. TWA 8 hours: 221 mg/m ³ . TWA 8 hours: 50 ppm. KTV 15 minutes: 442 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 442 mg/m ³ . TWA 8 hours: 100 ppm.

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		KTV 15 minutes: 884 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].
	Toluene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Repr Dev 2. Absorbed through skin. TWA 8 hours: 192 mg/m ³ . TWA 8 hours: 50 ppm. KTV 15 minutes: 384 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].
	n-Butyl acetate	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ .
	Xylene	National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ .
	Ethylbenzene	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .
	Toluene	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m ³ .
	n-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ .
	Xylene	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ .
	Ethylbenzene	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .
	Toluene	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m ³ .
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n-Butyl acetate	SUVA (Switzerland, 1/2024)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 240 mg/m ³ .
	STEL 15 minutes: 150 ppm.
	STEL 15 minutes: 720 mg/m ³ .
Xylene	SUVA (Switzerland, 1/2024) [Xylol] Absorbed through skin.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m ³ .
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 440 mg/m ³ .
Ethylbenzene	SUVA (Switzerland, 1/2024) Absorbed through skin, Ototoxican
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m ³ .
	STEL 15 minutes: 50 ppm.
	STEL 15 minutes: 220 mg/m ³ .
Toluene	SUVA (Switzerland, 1/2024) Develop 2. Absorbed through skin,
	Ototoxicant.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 190 mg/m ³ .
	STEL 15 minutes: 200 ppm.
	STEL 15 minutes: 760 mg/m ³ .
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
-	STEL 15 minutes: 966 mg/m ³ .
	STEL 15 minutes: 200 ppm.
	TWA 8 hours: 724 mg/m ³ .
	TWA 8 hours: 150 ppm.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m
	p- or mixed isomers] Absorbed through skin.
	STEL 15 minutes: 441 mg/m ³ .
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m ³ .
	STEL 15 minutes: 100 ppm.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 552 mg/m ³ .
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 441 mg/m ³ .
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 384 mg/m ³ .
	TWA 8 hours: 191 mg/m ³ .
	TWA 8 hours: 50 ppm.
	STEL 15 minutes: 100 ppm.

Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [xylenes]
	BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time:
	one year.
Toluene	VGU BEI (Austria, 9/2020)
	BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year.
	BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year
	BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year.
	BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one
	vear.
	BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological
	differential blood count) [in blood]. Sampling time: one year.
	BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling
	time: one year.
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		 BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Samptime: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time one year. 	-
	No exposure indices known.	BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.	g
	Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of	
		Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the expose or at the end of the work shift.	
	Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Samp time: at the end of the exposure or at the end of the work shift.	oling
	Xylene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Anne IV) (Croatia, 12/2023) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.	
		BEI: 14.13 μmol/l, xylene [in blood]. Sampling time: at the end the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine].	l of
		Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Samplin time: at the end of the work shift.	g
	Ethylbenzene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Anne IV) (Croatia, 12/2023)	ex
		BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.	
		BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: durir 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: the end of the work shift and at the end of the working week.	at
	Toluene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Anne IV) (Croatia, 12/2023)	ex
		BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: duri exposure.	ng
		BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.	
		BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of th work shift. BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end	
		the work shift. BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling til	
		at the end of the work shift. BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at th	ne
		end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.	g
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	BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
Xylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
Toluene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/I, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.
Toluene	 Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) BLV: 30 μg/l, toluene [in urine]. Sampling time: at the end of the shift. BLV: 20 μg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week. BLV: 300 μg/g Cr, ortho-cresol [in urine]. Sampling time: end of
Xylene	shift and weekend. DFG BEI-values list (Germany, 7/2023) [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, 2/2024) [Xylene (all isomers) BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: en of exposure or end of shift.
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_		-	-			
	Ethylbenzene		percutaneous absor BEI: 250 mg/g crea [in urine]. Sampling TRGS 903 - BEI Va BEI: 250 mg/g crea	time: end of exposure lues (Germany, 2/20	p. 228). plus phenyl glyoxylic aci e or end of shift. 24) plus phenylglyoxylic acid	
	Toluene		percutaneous absor BEI: 600 µg/l, tolue exposure. BEI: 1.5 mg/l, o-cre end of exposure or e end of the shift after BEI: 75 µg/l, toluer end of shift. TRGS 903 - BEI Va BEI: 600 µg/l, toluer immediately after ex BEI: 1.5 mg/l, o-cre end of exposure or e of shift after several	esol (after hydrolysis) end of shift / for long-t several shifts. ne [in urine]. Sampling lues (Germany, 2/20 ene [in whole blood]. S posure. esol (after hydrolysis) end of shift; for long-te shifts.	p. 228). ng time: immediately afte [in urine]. Sampling time term exposures: at the time: end of exposure o 24)	e: pr e:
	No exposure indices known.					
	Xylene		BEI: 1500 mg/g cre Sampling time: at th	ol creatinine, methylh		
	Ethylbenzene		BEI: 1500 mg/g cre at the end of the wo BEI: 1110 µmol/mr	rking week; at the end nol creatinine, mande	d [in urine]. Sampling tim d of the shift.	ıe:
	Toluene		BEI: 1 mg/g creatir end of the shift.	•	/ 2023) ·]. Sampling time: at the n urine]. Sampling time: a	at
	No exposure indices known.					
	Xylene			atinine, methylhippuri	c acids [in urine]. possible after exposure	
	Ethylbenzene		exposure to the sub measurement is am screening test if a qu confirmatory test if t of the determinant is Sampling time: not of BMGV: 0.7 g/g cre analyte is an indicate quantitative interpret	titative, the biological stance but the quantit biguous. These analy uantitative test is not p he quantitative test is s in question., ethylbe critical. atinine [Semi-quantita or of exposure to the tation of the measure	not specific and the originzene [in endexhaled air] nzene [in endexhaled air] ative, the biological substance but the	e in -].
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•	test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
Toluene	NAOSH (Ireland, 1/2011) BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
No exposure indices known.	
Xylene	Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [xylenes (all isomers)] BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.
Toluene	Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) BEI: 600 μg/l, toluene [in blood]. Sampling time: at the end of the exposure. BEI: 75 μg/l, toluene [in urine]. Sampling time: end of the shift. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.
No exposure indices known.	
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.
Xylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [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, 3/2024) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
Toluene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.
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		501111015/	personal protect		
	Xylene		Government regular [xylene, all isomers]]	
			acids [in urine]. Samp BLV: 1334 mg/g cre [in urine]. Sampling ti BLV: 10355 µmol/l, urine]. Sampling time BLV: 14.6 µmol/l, as of exposure or work s BLV: 2000 mg/l, as Sampling time: at the	bling time: at the en ratinine, as sum of 2 me: at the end of e as sum of 2,3,4-me as the end of expo sylene [in blood]. S shift. sum of 2,3,4-methy e end of exposure o dene [in blood]. Sar	Sampling time: at the end /hippuroic acids [in urine].
	Ethylbenzene		Government regula BLV: 799 μmol/mmo phenylglyoxylic acid [ol creatinine, as ma in urine]. Sampling	ndelic acid and time: at the end of
			exposure or work shi shifts.	ft; long-term expos	ure: after several work
			BLV: 7.44 µmol/mm	end of exposure o	or 4-etylfenol [in urine]. r work shift; long-term
			BLV: 1067 mg/g cre	atinine, as mandeli ing time: at the end	c acid and phenylglyoxylic l of exposure or work shift; shifts
			BLV: 8.03 mg/g crea	atinine, as 2 or 4-et posure or work shi	ylfenol [in urine]. Sampling ft; long-term exposure:
			BLV: 10590 µmol/l,	as mandelic acid a at the end of expo	nd phenylglyoxylic acid [in osure or work shift; long-
			BLV: 98.6 µmol/l, as the end of exposure of several work shifts.		urine]. Sampling time: at erm exposure: after
				at the end of expo	phenylglyoxylic acid [in osure or work shift; long-
					ne]. Sampling time: at the exposure: after several
	Toluene			nol creatinine, as hi	ppuric acid [in urine].
			time: at the end of ex	ol creatinine, as o- posure or work shi	r work shift. cresol [in urine]. Sampling ft; long-term exposure:
			time: at the end of ex	atinine, as hippuric posure or work shi	
			at the end of exposur several work shifts.	e or work shift; long	[in urine]. Sampling time: g-term exposure: after
			the end of exposure of BLV: 14.3 µmol/l, as	or work shift. s o-cresol [in urine].	urine]. Sampling time: at Sampling time: at the end
			shifts. BLV: 6517 nmol/l, a	s toluene [in blood]	osure: after several work . Sampling time: at the end
			end of exposure or w	hippuric acid [in uri ork shift.	ne]. Sampling time: at the
			exposure or work shi	ft; long-term expos	ampling time: at the end of ure: after several work
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	SECTION 8: Exposure	controls/	personal protection
			shifts. BLV: 600 μg/l, as toluene [in blood]. Sampling time: at the end of exposure or work shift.
	Xylene		Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [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, 4/2024) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
	Toluene		Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μg/l, toluene [in urine]. Sampling time: at the end of the work shift.
	Xylene		National institute of occupational safety and health (Spain, 1/2024) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
	Ethylbenzene		National institute of occupational safety and health (Spain, 1/2024) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
	Toluene		National institute of occupational safety and health (Spain, 1/2024) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.
	No exposure indices known.		
	Xylene		SUVA (Switzerland, 1/2024) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
	Ethylbenzene		SUVA (Switzerland, 1/2024) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
	Toluene		 SUVA (Switzerland, 1/2024) BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure. In case of long-term exposure: after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term
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SECTION 8: Exposure	•	•
	BE exp BE afte BE	osure: after more than one shift. El: 600 μg/l, toluene [in blood]. Sampling time: immediately after osure or after working hours. El: 6.48 μmol/l, toluene [in blood]. Sampling time: immediately er exposure or after working hours. El: 75 μg/l, toluene [in urine]. Sampling time: immediately after osure or after working hours.
Xylene	m-, BC	40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, p- or mixed isomers] GV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. npling time: post shift.
Recommended monitoring procedures	European Standard assessment of expo- values and measure atmospheres - Guid of exposure to chen (Workplace atmosp for the measuremen	e made to monitoring standards, such as the following: EN 689 (Workplace atmospheres - Guidance for the osure by inhalation to chemical agents for comparison with limit ement strategy) European Standard EN 14042 (Workplace e for the application and use of procedures for the assessment nical and biological agents) European Standard EN 482 heres - General requirements for the performance of procedure to f chemical agents) Reference to national guidance mods for the determination of hazardous substances will also be
DNELs/DMELs	1	
Product/ingredient name		Result
n-Butyl acetate		DNEL - General population - Long term - Oral 2 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Short term - Oral 2 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Dermal 3.4 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Short term - Dermal 6 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Dermal 7 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Short term - Dermal 11 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 12 mg/m ³ <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 35.7 mg/m³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Inhalation 48 mg/m³ <u>Effects</u> : Systemic
		DNEL - General population - Short term - Inhalation 300 mg/m ³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation 300 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects</u>: Systemic

Solvent naphtha (petroleum), light aromatic

Xylene

DNEL - General population - Long term - Inhalation 0.41 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation 1.9 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 178.57 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Inhalation 640 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 837.5 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 1066.67 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation 1152 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 1286.4 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral 5 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 65.3 mg/m³ <u>Effects</u>: Local

DNEL - General population - Long term - Inhalation 65.3 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 125 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 212 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 221 mg/m1 Effects: Local DNEL - General population - Short term - Inhalation 220 mg/m1 Effects: Local DNEL - General population - Short term - Inhalation 260 mg/m1 Effects: Local DNEL - General population - Short term - Inhalation 260 mg/m1 Effects: Local DNEL - Workers - Short term - Inhalation 260 mg/m1 Effects: Local DNEL - Workers - Short term - Inhalation 260 mg/m2 Effects: Local DNEL - Workers - Short term - Inhalation 442 mg/m1 Effects: Local DNEL - Workers - Long term - Inhalation 442 mg/m1 Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m2 Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m2 Effects: Systemic DNEL - Workers - Long term - Inhalation 16 mg/kg bw/day		
221 mg/m³ Effects: Systemic DNEL - General population - Short term - Inhalation 260 mg/m³ Effects: Local DNEL - General population - Short term - Inhalation 260 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Short term - Inhalation 84 mg/m³ Effects: Systemic DMEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 78 mg/m³ Effects: Systemic DNEL - Work		221 mg/m ³
260 mg/m³ Effects: Local DNEL - General population - Short term - Inhalation 260 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Short term - Inhalation 16 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 16 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 17 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 18 0 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 29 mg/m³ Effects: Systemic DNEL - Workers - Shor		221 mg/m ³
260 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 884 mg/m³ Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/mg bw/day Effects: Systemic DNEL - Workers - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 17 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 293 mg/m³ Effect		260 mg/m ³
442 mg/m³ Effects: Local DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Systemic DMEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 17 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Local DNEL - General populat		260 mg/m ³
Ethylbenzene DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 844 mg/m³ Effects: Local DMEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day IB0 mg/kg bw/day Effects: Local Toluene DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 96.5 mg/m³ <t< td=""><td></td><td>442 mg/m³</td></t<>		442 mg/m³
442 mg/m³ Effects: Local DMEL - Workers - Short term - Inhalation 884 mg/m³ Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - Workers - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Local DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic <td></td> <td>442 mg/m³</td>		442 mg/m³
884 mg/m³ Effects: Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Local DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 8.5 mg/m³	Ethylbenzene	442 mg/m ³
1.6 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 26.5 mg/m³		884 mg/m³
15 mg/m³ Effects: Systemic DNEL - Workers - Long term - Inhalation 77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation Systemic DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 56.5 mg/m³		1.6 mg/kg bw/day
77 mg/m³ Effects: Systemic DNEL - Workers - Long term - Dermal 180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 56.5 mg/m³		15 mg/m ³
180 mg/kg bw/day Effects: Systemic DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 56.5 mg/m³		77 mg/m ³
293 mg/m³ Effects: Local Toluene DNEL - General population - Long term - Oral 8.13 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 56.5 mg/m³		180 mg/kg bw/day
8.13 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Long term - Inhalation 56.5 mg/m ³		293 mg/m ³
56.5 mg/m ³	Toluene	8.13 mg/kg bw/day
		56.5 mg/m ³
DNEL - General population - Long term - Inhalation 56.5 mg/m ³ <u>Effects</u> : Systemic		56.5 mg/m ³
DNEL - Workers - Long term - Inhalation		DNEL - Workers - Long term - Inhalation

192 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 192 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 226 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Inhalation 226 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation 226 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 384 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 384 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 384 mg/m³ <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls						
Appropriate engineering controls	:	ventilation of contaminant controls als	or other engineeri Its below any reco	ng control ommendeo as, vapou	s to keep work d or statutory li r or dust conce	losures, local exhaust er exposure to airborne mits. The engineering entrations below any lower pment.
Individual protection meas	ures	-				
Hygiene measures	:	before eatin Appropriate Contaminat contaminate	ng, smoking and u techniques shou red work clothing	using the la ld be used should no e reusing.	avatory and at d to remove po t be allowed ou Ensure that e	dling chemical products, the end of the working period. tentially contaminated clothing. It of the workplace. Wash yewash stations and safety
Eye/face protection	:	assessmen gases or du	t indicates this is ists. If contact is assessment indica	necessary possible, i	y to avoid expo the following p	d should be used when a risk osure to liquid splashes, mists, rotection should be worn, protection: safety glasses with
Skin protection						
Hand protection	:	be worn at a this is nece check durin should be n different for	all times when ha ssary. Considerir g use that the glo oted that the time different glove m	ndling che ng the para ves are st to breakt anufactur	emical products ameters specif till retaining the through for any ers. In the cas	n an approved standard should s if a risk assessment indicates fied by the glove manufacturer, sir protective properties. It glove material may be se of mixtures, consisting of cannot be accurately
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	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	÷

Ingredient name		°C	°F	Method	
n-Butyl acetate		126	258.8	OECD 103	
Solvent naphtha (petroleum), light aro	matic	135 to 210	275 to 410		
Flammability	: Not av	ailable.	ł		
Lower and upper explosion limit		0.8% (xylene) 7.6% (n-butyl			
Flash point	: Closed	l cup: 27°C (80	.6°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
Solvent naphtha (petroleum), light aro	matic	280 to 470	536 to 878		
EO bis(benztriazolyl)phenylpropionat		405	761		
Decomposition temperature	: Not ava	ailable.			
рН	: Not ap	plicable.			
Viscosity	: Not ava	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	: Not ava	ailable.			
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SECTION 9: Physical and chemical properties

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

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Ethylbenzene	9.30076	1.2					
Relative density	: Not	available.					
Density	: 1 g/	cm ³					
/apour density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
2 Other information							
9.2.1 Information with reg	ard to physic	al hazard o	classes				
Explosive properties	: Not	available.					

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stabilit	y 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 a	s defined	d in Regulation (EC)	No 1272/2008	
Acute toxicity				
Product/ingredient name		Result		
p -Butyl acetate		Rat - Oral - LI 10760 mg/kg	D50	
		EU		
		Rabbit - Derm	nal - LD50	
		14112 mg/kg		
		Rat - Inhalatic 0.74 mg/l [4 ho	on - LC50 Vapour ours]	
Solvent naphtha (petroleum), light aro	matic	Rat - Oral - LI	D50	
		8400 mg/kg <u>Toxic effects</u> :	Behavioral - Somnole	nce (general depressed
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	activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes
Xylene	Rat - Oral - LD50 4300 mg/kg <u>Toxic effects</u> : Liver - Other changes Kidney, Ureter, and Bladder - Other changes
	Rat - Inhalation - LC50 Vapour 21.7 mg/l [4 hours]
Ethylbenzene	Rat - Oral - LD50 3500 mg/kg
	Rabbit - Dermal - LD50 15400 mg/kg
	Rat - Inhalation - LC50 Dusts and mists 29000 mg/l [4 hours]
Toluene	Rat - Oral - LD50 636 mg/kg
	Rat - Inhalation - LC50 Vapour 49 g/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
LPOCRYL KLARLACK 1495-95	N/A	17040.9	N/A	139.7	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Ethylbenzene	3500	15400	N/A	11	29000
Toluene	N/A	N/A	N/A	49	N/A

Skin corrosion/irritation

Product/ingredient name n-Butyl acetate		Duration of tre	- Moderate irritant atment/exposure: 24 hour entration applied: 500 mg	rs	
Xylene			l ild irritant eatment/exposure: 8 hours entration applied: 60 uL	6	
		Duration of tre	- Moderate irritant atment/exposure: 24 hour entration applied: 500 mg	ſS	
			- Moderate irritant entration applied: 100 %		
Ethylbenzene		Duration of tre	- Mild irritant <u>eatment/exposure</u> : 24 hour entration applied: 15 mg	ſS	
Toluene		Pig - Skin - M	ild irritant		
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SECTION 11: Toxicological inform	nation
	Duration of treatment/exposure: 24 hours Amount/concentration applied: 250 uL
	Rabbit - Skin - Mild irritant <u>Amount/concentration applied</u> : 435 mg
	Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg
	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not avai	ilable.
Serious eye damage/eye irritation	
Product/ingredient name	Result
-Butyl acetate	Rabbit - Eyes - Moderate irritant Amount/concentration applied: 100 mg
Solvent naphtha (petroleum), light aromatic	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 100 uL
Xylene	Rabbit - Eyes - Mild irritant Amount/concentration applied: 87 mg
	Rabbit - Eyes - Severe irritant
	Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg
Ethylbenzene	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 500 mg
Toluene	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 0.5 minutes Amount/concentration applied: 100 mg
	Rabbit - Eyes - Mild irritant
	Amount/concentration applied: 870 ug
	Rabbit - Eyes - Severe irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 2 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI
Conclusion/Summary [Product] : Not avai	lable.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not avai	lable.
Respiratory or skin sensitization Not available.	
Skin	
Conclusion/Summary [Product] : Not avai	lable.
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SECTION 11: Toxicological information

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

n-Butyl acetate Solvent naphtha (petroleum), light aromatic

Xylene Toluene

Result

STOT SE 3, H336 (Narcotic effects) STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects) STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Xylene Ethylbenzene	STOT RE 2, H373 (oral, inhalation) STOT RE 2, H373 (hearing organs) (oral, inhalation)
Toluene	STOT RE 2, H373

Aspiration hazard

Product/ingredient name

Solvent naphtha (petroleum), light aromatic Xylene Ethylbenzene Toluene

Result

ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects		
Eye contact	nown significant effects or critical hazards.	
Inhalation	cause central nervous system (CNS) depression. May cause drows ness.	iness or
Skin contact	cause an allergic skin reaction.	
Ingestion	cause central nervous system (CNS) depression.	
Symptoms related to the phy	hemical and toxicological characteristics	
Eye contact	pecific data.	
Inhalation	erse symptoms may include the following: sea or vomiting dache vsiness/fatigue ness/vertigo onsciousness	

SECTION 11: Toxicological information

Skin contact	Adverse symptoms may include the following: irritation redness	
Ingestion	No specific data.	
Delayed and immediate effe	s as well as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
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 effe	<u>s</u>	
Not available.		
Conclusion/Summary [Pro	uct] : Not available.	
General	 Once sensitized, a severe allergic reaction may occur when subsequently expose to very low levels. 	ed
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 properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

12.1 Toxicity

SECTION 12: Ecological information

Product/ingredient name Result n-Butyl acetate Acute - LC50 - Fresh water Fish - Fathead minnow - Pimephales promelas Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g 18000 µg/l [96 hours] Effect: Mortality Acute - LC50 - Marine water Crustaceans - Brine shrimp - Artemia salina 32 mg/l [48 hours] Effect: Mortality Solvent naphtha (petroleum), light aromatic Acute - LC50 Fish 9.2 mg/l [96 hours] Acute - EC50 Daphnia 3.2 mg/l [48 hours] Toluene Acute - LC50 - Fresh water Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Fry Weight: 1 g 5500 µg/l [96 hours] Effect: Mortality

SECTION 12: Ecological information

Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* 12500 μg/l [72 hours] Effect: Growth

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* <u>Age</u>: ≤24 hours 1000 μg/l [21 days] <u>Effect</u>: Reproduction

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate <u>Age</u>: ≤24 hours 5.56 mg/l [48 hours] <u>Effect</u>: Intoxication

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
n-Butyl acetate	2.3	-	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light aromatic			
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
Toluene	2.73	90	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
n-Butyl acetate Ethylbenzene Toluene bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1.52 2.23 2.07 5 4.04	33.2139 170.406 117.115 101050 11012

Results of PMT and vPvM assessment

Product/ingredient name	РМТ	Р	М	т	vPvM	vP	٧M
n-Butyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Toluene	No	No	No	No	No	No	No
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	No	No	No	No	No	No	No
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No
Mobility	: Not av	ailable.			ł		

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SECTION 12: Ecological information

Conclusion/Summary

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
n-Butyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Toluene	No	No	No	No	No	No	No
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	No	No	No	No	No	No	No
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
n-Butyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Toluene	No	No	No	No	No	No	No
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	No	No	No	No	No	No	No
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB. Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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SECTION 13: Disposal considerations

•	
European waste catalogue (EWC)	: 08.01.11
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	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	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID: Tunnel code (D/E)ADN: The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

14.6 Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO

instruments

SECTION 15: Regulatory 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

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Product/ingredient name	%	Designation [Usage]		
ALPOCRYL KLARLACK 1495-95 Toluene	≥90 <1	3 48			
Labelling :					
Other EU regulations					
Industrial emissions : Not liste (integrated pollution prevention and control) - Air	d				
Industrial emissions : Not liste (integrated pollution prevention and control) - Water	d				
Explosive precursors : Not appl	licable				
Ozone depleting substances (EU 2024					
Not listed.	<u></u>				
Prior Informed Concept (PIC) (649/201	2/EU)				
Prior Informed Consent (PIC) (649/201 Not listed.	<u>12/EU)</u>				
Persistent Organic Pollutants Not listed.					
Seveso Directive					
This product is controlled under the Seve	eso Directive.				
Danger criteria					
Category					
P5c					
VbF class : Categor Limitation of the use of organic solvents : Permitte Belgium : Description	-				
Book VI carcinogenic agents annex V	<u>I.2-1 - VI.2-3</u>				
Ingredient name					Status
Styrène				L	isted
Czech Republic				<u>I</u>	
Storage code : II					
<u>Denmark</u>					
Fire class : II-1					
Executive Order No. 1795/2015					
		Α	nnex I Section A	Anne	x I Section B
Ingredient name			sted	-	
Ingredient name Ethylbenzene		Li			
Ethylbenzene		Li			
Ethylbenzene MAL-code : 3-5 Protection based on MAL : Accordi		ulations on work	involving coded pr nal protective equi		
Ethylbenzene MAL-code : 3-5 Protection based on MAL : Accordi stipulat General coveralls clothes of shield m	ions apply to I: Gloves mus s/protective cl do not adequa nust be worn in	ulations on work the use of persor at be worn for all wo othing must be wor ately protect skin ag work involving spa		pment: n soiling great the production	j. Apron/ hat regular wo uct. A face
Ethylbenzene MAL-code : 3-5 Protection based on MAL : Accordi stipulat General coveralls clothes of shield m	ions apply to I: Gloves mus s/protective cl do not adequa nust be worn in her recommen	ulations on work the use of persor at be worn for all wo othing must be wor ately protect skin ag work involving spa anded use of eye pro	nal protective equip ork that may result ir n when soiling is so ainst contact with th attering if a full mask	pment: great the production is not ed.	j. Apron/ hat regular wo uct. A face

SECTION 15: Regulatory information

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

MAL-code: 3-5

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

- Protective clothing must be worn.

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

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

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

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

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

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

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

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

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

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

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

*See Regulations.

Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Not listed
Carcinogenic waste	 Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
<u>Finland</u>	

France

SECTION 15: Regulatory information

Social Security Code,	1	n-Butyl acetate		RG 84
Articles L 461-1 to L 461-7		Solvent naphtha (petroleum), light aromatic		RG 84
		Xylene		RG 4bis, RG 84
		Ethylbenzene		RG 84
		Toluene		RG 4bis, RG 84
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities which require rei medical surveillance: not applicable		hich require reinforced	

Germany

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

: Not determined.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	23.4
5.2.2 [III]	Dusty inorganic substances	0.013
5.2.5	Organic substances	76.6
5.2.5 [I]	Organic substances	41.3

<u>Italy</u>

D.Lgs. 152/06

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
xylene tolueen	-	-	-	Development 2 Development 2	-

 Water Discharge Policy (ABM)
 : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

<u>Norway</u>

<u>Sweden</u>	
Flammable liquid class (SRVFS 2005:10)	: 2a
Switzerland	
VOC content	: VOC (w/w): 50.8%

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)

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SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

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

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

Full text of abbreviated H statements

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

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4			
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1			
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1			
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2			
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
Asp. Tox. 1	ASPIRATION HAZARD - Category 1			
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2			
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2			
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3			
Repr. 2	REPRODUCTIVE TOXICITY - Category 2			
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1	SKIN SENSITISATION - Category 1			
Skin Sens. 1A	SKIN SENSITISATION - Category 1A			
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SECTION 16: Ot	her information
STOT RE 2 STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Notice to reader

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

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