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

SAFETY DATA SHEET



1/49

OWEDUR 4193-10 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier

Product name : OWEDUR 4193-10 - 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

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National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

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

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

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

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

: Danger

: H225 - Highly flammable liquid and vapour.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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SECTION 2: Hazards identification

Prevention		P280 - Wear protective gloves, protective clothing, eye protection, face protection,
Flevention	1	or hearing protection.
		P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition
		sources. No smoking.
		P260 - Do not breathe vapour.
Response	:	P314 - Get medical advice/attention if you feel unwell.
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: acetone; n-Butyl acetate; Toluene and Fatty acids, C14-18 and C16-18-unsatd., maleated
Supplemental label elements	1	
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 bazarde which do		Nana known

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥10 - <25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226	-	[2]
REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤0.3	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
	01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2 REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6	$\begin{array}{c cccc} 01-2119475791-29\\ EC: 203-603-9\\ CAS: 108-65-6\\ Index: 607-195-00-7\\ \hline REACH #: & \leq 3\\ 01-2119489370-35\\ EC: 202-849-4\\ CAS: 100-41-4\\ Index: 601-023-00-4\\ \hline REACH #: & \leq 0.3\\ 01-2119976378-19\\ EC: 288-306-2\\ CAS: 85711-46-2\\ \hline REACH #: & \leq 0.3\\ 01-0000015075-76\\ EC: 400-830-7\\ CAS: 104810-48-2\\ Index: 607-176-00-3\\ \hline REACH #: & \leq 0.1\\ 01-2119472428-31\\ EC: 203-571-6\\ CAS: 108-31-6\\ \hline \end{array}$	01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2 REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9 Skin Sens. 1A, H317 Stor Resp. Sens. 1A, H314 Eye Dam. 1, H318 Resp. Sens. 1A, H317 Stor R	01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 = 0.3 REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2 REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 104810-48-2 Index: 607-096-00-9 = 0.1 REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 1048-31-6 Index: 607-096-00-9 = 0.1 REACH #: 0.1 REACH #: 0.1 REA

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first a	id measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 4: First aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

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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

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient nam	Exposure limit values
acetone n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).TWA: 500 ppm 8 hours.TWA: 1200 mg/m³ 8 hours.PEAK: 2000 ppm, 4 times per shift, 15 minutes.PEAK: 4800 mg/m³, 4 times per shift, 15 minutes.Regulation on Limit Values - MAC (Austria, 4/2021). [Butylacetate (all isomers except tert-butyl acetate)]CEIL: 480 mg/m³ 15 minutes.CEIL: 100 ppm 15 minutes.TWA: 241 mg/m³ 8 hours.
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SECTION 8: Exposure controls/personal protection TWA: 50 ppm 8 hours. Toluene Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m³, 4 times per shift, 15 minutes. **Xylene** Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m³, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m³ 8 hours. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed 2-Methoxy-1-methylethyl acetate through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 550 mg/m³, 8 times per shift, 5 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed Ethylbenzene through skin. TWA: 100 ppm 8 hours. TWA: 440 mg/m³ 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes. CEIL: 880 mg/m³, 8 times per shift, 5 minutes. Maleic anhydride Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser. Inhalation sensitiser. TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours. CEIL: 0.2 ppm, 8 times per shift, 5 minutes. CEIL: 0.8 mg/m³, 8 times per shift, 5 minutes. acetone Limit values (Belgium, 5/2021). TWA: 246 ppm 8 hours. TWA: 594 mg/m³ 8 hours. STEL: 492 ppm 15 minutes. STEL: 1187 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] n-Butyl acetate STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Toluene Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. **Xylene** Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. 2-Methoxy-1-methylethyl acetate TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ethylbenzene Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 87 mg/m³ 8 hours.

Maleic anhydride

TWA: 0.01 mg/m³ 8 hours. Form: vapour and aerosol

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STEL: 125 ppm 15 minutes. STEL: 551 mg/m³ 15 minutes.

Limit values (Belgium, 5/2021).

TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol

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acetone	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 600 mg/m³ 8 hours.
	Limit value 15 min: 1400 mg/m ³ 15 minutes.
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
Taluana	Limit value 8 hours: 50 ppm 8 hours.
Toluene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 8 hours.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Xylene	Ministry of Labour and Social Policy and the Ministry of
Ayleric	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
	(mixture of isomers), pure] Absorbed through skin.
	Limit value 8 hours: 221 mg/m ³ 8 hours.
	Limit value 15 min: 442 mg/m ³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 275 mg/m ³ 8 hours.
	Limit value 15 min: 550 mg/m ³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 435 mg/m ³ 8 hours.
	Limit value 15 min: 545 mg/m³ 15 minutes.
Maleic anhydride	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 1 mg/m³ 8 hours.
acetone	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	ELV: 1210 mg/m ³ 8 hours.
	ELV: 500 ppm 8 hours.
n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 723 mg/m ³ 15 minutes.
	STELV: 150 ppm 15 minutes.
	ELV: 241 mg/m ³ 8 hours.
Taluana	ELV: 50 ppm 8 hours.
Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m ³ 15 minutes.
	STELV: 364 mg/m 15 minutes. STELV: 100 ppm 15 minutes.
	ELV: 192 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
	through skin.
	STELV: 442 mg/m ³ 15 minutes.
	STELV: 100 ppm 15 minutes.
	ELV: 221 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin.

LV: 100 ppm 15 minutes. : 275 mg/m ³ 8 hours. : 50 ppm 8 hours. try of Economy, Labour and Entrepreneurship ELV/ V (Croatia, 1/2021). Absorbed through skin. LV: 884 mg/m ³ 15 minutes. LV: 200 ppm 15 minutes. : 442 mg/m ³ 8 hours. : 100 ppm 8 hours. try of Economy, Labour and Entrepreneurship ELV/ V (Croatia, 1/2021). Skin sensitiser. Inhalation sensitiser LV: 0.2 ppm 15 minutes. : 0.41 mg/m ³ 8 hours. LV: 0.8 mg/m ³ 15 minutes. : 0.1 ppm 8 hours. trtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 241 mg/m ³ 8 hours. A: 241 mg/m ³ 8 hours. A: 241 mg/m ³ 8 hours. Trtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 241 mg/m ³ 8 hours. Trtment of labour inspection (Cyprus, 7/2021). Absorbed B: 723 mg/m ³ 15 minutes. A: 241 mg/m ³ 8 hours. Trtment of labour inspection (Cyprus, 7/2021). Absorbed B: 723 mg/m ³ 15 minutes. A: 241 mg/m ³ 8 hours. Trtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes. L: 100 ppm 15 minutes.
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 100 ppm 8 hours. try of Economy, Labour and Entrepreneurship ELV/ V (Croatia, 1/2021). Skin sensitiser. Inhalation sensitiser LV: 0.2 ppm 15 minutes. 0.41 mg/m³ 8 hours. LV: 0.8 mg/m³ 15 minutes. 0.1 ppm 8 hours. trment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. Stop ppm 8 hours. A: 500 ppm 8 hours. A: 1210 mg/m³ 8 hours. L: 150 ppm 15 minutes. I: 723 mg/m³ 15 minutes. So ppm 8 hours. A: 500 ppm 8 hours. trment of labour inspection (Cyprus, 7/2021). A: 1210 mg/m³ 8 hours. trment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. A: 241 mg/m³ 8 hours. A: 241 mg/m³ 8 hours. trment of labour inspection (Cyprus, 7/2021). Absorbed A: 1210 mg/m³ 8 hours. A: 500 ppm 8 hours. A: 500 ppm 15 minutes. Distributes. <
try of Economy, Labour and Entrepreneurship ELV/ V (Croatia, 1/2021). Skin sensitiser. Inhalation sensitise LV: 0.2 ppm 15 minutes. : 0.41 mg/m ³ 8 hours. LV: 0.8 mg/m ³ 15 minutes. : 0.1 ppm 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 241 mg/m ³ 8 hours. A: 241 mg/m ³ 8 hours. Trtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
V (Croatia, 1/2021). Skin sensitiser. Inhalation sensitise LV: 0.2 ppm 15 minutes. : 0.41 mg/m ³ 8 hours. LV: 0.8 mg/m ³ 15 minutes. : 0.1 ppm 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 500 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
LV: 0.2 ppm 15 minutes. : 0.41 mg/m ³ 8 hours. LV: 0.8 mg/m ³ 15 minutes. : 0.1 ppm 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
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LV: 0.8 mg/m ³ 15 minutes. : 0.1 ppm 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
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rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
gh skin. A: 500 ppm 8 hours. A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
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A: 1210 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
rtment of labour inspection (Cyprus, 7/2021). L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
L: 150 ppm 15 minutes. L: 723 mg/m ³ 15 minutes. A: 50 ppm 8 hours. A: 241 mg/m ³ 8 hours. rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
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rtment of labour inspection (Cyprus, 7/2021). Absorbed gh skin. L: 100 ppm 15 minutes.
gh skin. L: 100 ppm 15 minutes.
L: 100 ppm 15 minutes.
L: 384 mg/m ³ 15 minutes.
A: 50 ppm 8 hours.
A: 192 mg/m ³ 8 hours.
rtment of labour inspection (Cyprus, 7/2021). [Xylene,
d isomers] Absorbed through skin.
L: 100 ppm 15 minutes.
L: 442 mg/m³ 15 minutes.
A: 50 ppm 8 hours.
A: 221 mg/m³ 8 hours.
rtment of labour inspection (Cyprus, 7/2021). Absorbed
gh skin.
L: 100 ppm 15 minutes.
L: 550 mg/m³ 15 minutes.
A: 50 ppm 8 hours.
A: 275 mg/m ³ 8 hours.
rtment of labour inspection (Cyprus, 7/2021). Absorbed
gh skin.
L: 884 mg/m³ 15 minutes.
A: 100 ppm 8 hours.
A: 442 mg/m ³ 8 hours.
L: 200 ppm 15 minutes.
rnment regulation of Czech Republic PEL/NPK-P (Czec
blic, 10/2022).
A: 800 mg/m ³ 8 hours.
L: 1500 mg/m³ 15 minutes.
L: 621 ppm 15 minutes.
A: 331.2 ppm 8 hours.
rnment regulation of Czech Republic PEL/NPK-P (Czec
blic, 10/2022).
· /
A: 241 mg/m ³ 8 hours.
A: 241 mg/m³ 8 hours. L: 723 mg/m³ 15 minutes.
A: 241 mg/m³ 8 hours. L: 723 mg/m³ 15 minutes. L: 149.661 ppm 15 minutes.
A: 241 mg/m³ 8 hours. L: 723 mg/m³ 15 minutes. L: 149.661 ppm 15 minutes. A: 49.887 ppm 8 hours.
A: 241 mg/m ³ 8 hours. L: 723 mg/m ³ 15 minutes. L: 149.661 ppm 15 minutes. A: 49.887 ppm 8 hours. rnment regulation of Czech Republic PEL/NPK-P (Czec
A: 241 mg/m³ 8 hours. L: 723 mg/m³ 15 minutes. L: 149.661 ppm 15 minutes. A: 49.887 ppm 8 hours.

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	TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100.224 ppm 15 minutes.
(ylene	Government regulation of Czech Republic PEL/NPK-P (Czecl
	Republic, 10/2022). [xylene, technical mixture of isomers and
	all isomers] Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	STEL: 400 mg/m ³ 15 minutes.
	STEL: 90.8 ppm 15 minutes.
	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 270 mg/m ³ 8 hours.
	TWA: 49.14 ppm 8 hours.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100.1 ppm 15 minutes.
thylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m ³ 15 minutes.
	STEL: 113.5 ppm 15 minutes.
1aleic anhydride	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Skin sensitiser.
	TWA: 1 mg/m ³ 8 hours.
	TWA: 0.245 ppm 8 hours.
	STEL: 2 mg/m ³ 15 minutes.
	STEL: 0.49 ppm 15 minutes.
cetone	Working Environment Authority (Denmark, 6/2022).
	TWA: 250 ppm 8 hours.
	TWA: 600 mg/m ³ 8 hours.
	STEL: 1200 mg/m ³ 15 minutes.
	STEL: 500 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
oluene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m ³ 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 109 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
-Methoxy-1-methylethyl acetate	Working Environment Authority (Denmark, 6/2022).
	[2-Methoxy-1-methylethyl acetate] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
-	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
/aleic anhydride	Working Environment Authority (Denmark, 6/2022).
, -	TWA: 0.1 ppm 8 hours.

	TWA: 0.4 mg/m ³ 8 hours.
	STEL: 0.8 mg/m ³ 15 minutes.
	STEL: 0.2 ppm 15 minutes.
acetone	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 1210 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
oluene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
<i>lylene</i>	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m ³ 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
	TWA: 275 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
Maleic anhydride	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Skin sensitiser.
	TWA: 1.2 mg/m ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
acetone	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
-	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
(vlana	STEL: 100 ppm 15 minutes.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupation
	exposure limit values TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.

	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis of indicative occupational exposure limit values TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
thylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.
actors	
cetone	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).
	TWA: 500 ppm 8 hours.
	TWA: 1200 mg/m ³ 8 hours.
	STEL: 630 ppm 15 minutes.
	STEL: 1500 mg/m ³ 15 minutes.
-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
oluene	STEL: 960 mg/m ³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs
oldelle	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 380 mg/m ³ 15 minutes.
ylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m ³ 15 minutes.
	TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 270 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
thulbonzono	STEL: 550 mg/m ³ 15 minutes.
thylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 880 mg/m ³ 15 minutes.
1aleic anhydride	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 0.1 ppm 8 hours.
	TWA: 0.41 mg/m ³ 8 hours. CEIL: 0.2 ppm
	CEIL: 0.81 mg/m ³
cetone	Ministry of Labor (France, 10/2022). Notes: Binding regulate limit values (article R. 4412-149 of the Labor Code)
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
	STEL: 2420 mg/m ³ 15 minutes.
	STEL: 1000 ppm 15 minutes.
-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulate
	limit values (article R. 4412-149 of the Labor Code)

ECTION 8: Exposure contro	ols/personal protection
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Foluene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 76.8 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Kylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Maleic anhydride	Ministry of Labor (France, 10/2022). Sensitization potential.
	Notes: Permissible limit values (circulars)
	STEL: 1 mg/m ³ 15 minutes.
acetone	TRGS 900 OEL (Germany, 6/2022).
	TWA: 1200 mg/m³ 8 hours.
	PEAK: 2400 mg/m ³ 15 minutes.
	TWA: 500 ppm 8 hours.
	PEAK: 1000 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 500 ppm 8 hours.
	PEAK: 1000 ppm, 4 times per shift, 15 minutes.
	TWA: 1200 mg/m ³ 8 hours.
	PEAK: 2400 mg/m ³ , 4 times per shift, 15 minutes.
n-Butyl acetate	DFG MAC-values list (Germany, 7/2022).
	TWA: 100 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 480 mg/m ³ 8 hours.
	PEAK: 960 mg/m ³ , 4 times per shift, 15 minutes.
	TRGS 900 OEL (Germany, 6/2022).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 62 ppm 8 hours.
	PEAK: 600 mg/m ³ 15 minutes.
	PEAK: 124 ppm 15 minutes.
Foluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	I WA: 50 ppm 8 nours.
	TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes.
te of issue/Date of revision : 12/03/2	PEAK: 100 ppm, 4 times per shift, 15 minutes.

	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
(ylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed throug
	skin.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.
-Methoxy-1-methylethyl acetate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 270 mg/m ³ 8 hours.
	PEAK: 270 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 50 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022).
	TWA: 50 ppm 8 hours.
	PEAK: 50 ppm, 4 times per shift, 15 minutes.
	TWA: 270 mg/m ³ 8 hours.
	PEAK: 270 mg/m³, 4 times per shift, 15 minutes.
oybean oil, epoxidized	TRGS 900 OEL (Germany, 6/2022). [triglycerides]
5 7 1	PEAK: 20 mg/m ³ 15 minutes. Form: Respirable fraction
	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
thylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 88 mg/m ³ 8 hours.
	PEAK: 176 mg/m ³ 15 minutes.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.
	TWA: 88 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
laleic anhydride	TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation
	sensitiser.
	TWA: 0.081 mg/m ³ 8 hours.
	CEIL: 0.2025 mg/m ³
	TWA: 0.02 ppm 8 hours.
	CEIL: 0.05 ppm
	PEAK: 0.081 mg/m ³ 15 minutes.
	PEAK: 0.02 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
	Inhalation sensitiser.
	TWA: 0.02 ppm 8 hours. CEIL: 0.05 ml/m ³
	TWA: 0.081 mg/m ³ 8 hours.
	CEIL: 0.2 mg/m ³
	PEAK: 0.081 mg/m ³ , 4 times per shift, 15 minutes.
	PEAK: 0.02 ppm, 4 times per shift, 15 minutes.
cetone	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 1780 mg/m ³ 8 hours.
	STEL: 3560 mg/m ³ 15 minutes.
-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
oluene	Presidential Decree 307/1986: Occupational exposure limit

	values (Greece, 9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
(ylene	STEL: 384 mg/m ³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit
(yiene	values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m ³ 15 minutes.
Maleic anhydride	Presidential Decree 307/1986: Occupational exposure limit
5	values (Greece, 9/2021).
	TWA: 0.25 ppm 8 hours.
	TWA: 1 mg/m³ 8 hours.
acetone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser
	Inhalation sensitiser.
	TWA: 1210 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser
-	Inhalation sensitiser.
	TWA: 241 mg/m ³ 8 hours.
	PEAK: 723 mg/m ³ 15 minutes.
	PEAK: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 192 mg/m³ 8 hours. PEAK: 384 mg/m³ 15 minutes.
	PEAK: 304 mg/m 15 minutes. PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Kylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixtur
(yiono	of isomers] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	PEAK: 442 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).
	TWA: 275 mg/m ³ 8 hours.
	PEAK: 550 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 442 mg/m ³ 8 hours.
	PEAK: 884 mg/m ³ 15 minutes. PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Maleic anhydride	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser
	Inhalation sensitiser.
	TWA: 0.08 mg/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection		
	PEAK: 0.08 mg/m³ 15 minutes.	
	PEAK: 0.2 ppm 15 minutes.	
	TWA: 0.2 ppm 8 hours.	
acetone	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	TWA: 600 mg/m ³ 8 hours.	
	TWA: 250 ppm 8 hours.	
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	[butyl acetate, all isomers]	
	TWA: 241 mg/m³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.	
Toluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	Absorbed through skin.	
	STEL: 188 mg/m ³ 15 minutes.	
	STEL: 50 ppm 15 minutes.	
	TWA: 94 mg/m ³ 8 hours.	
	TWA: 25 ppm 8 hours.	
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
-	[xylene, all isomers] Absorbed through skin.	
	STEL: 442 mg/m ³ 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 109 mg/m³ 8 hours.	
	TWA: 25 ppm 8 hours.	
2-Methoxy-1-methylethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	Absorbed through skin.	
	STEL: 550 mg/m ³ 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 275 mg/m ³ 8 hours.	
Ethylbenzene	TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
Luiyibenzene	Absorbed through skin.	
	STEL: 884 mg/m ³ 15 minutes.	
	STEL: 200 ppm 15 minutes.	
	TWA: 200 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
Maleic anhydride	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
,	Skin sensitiser.	
	TWA: 0.4 mg/m ³ 8 hours.	
	TWA: 0.1 ppm 8 hours.	
acetone	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational	
	Exposure Limit Values	
	OELV-8hr: 500 ppm 8 hours.	
	OELV-8hr: 1210 mg/m ³ 8 hours.	
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational	
	Exposure Limit Values	
	OELV-8hr: 50 ppm 8 hours.	
	OELV-8hr: 241 mg/m ³ 8 hours.	
	OELV-15min: 150 ppm 15 minutes.	
	OELV-15min: 723 mg/m ³ 15 minutes.	
Toluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU	
	derived Occupational Exposure Limit Values	
	OELV-8hr: 50 ppm 8 hours.	
	OELV-8hr: 192 mg/m ³ 8 hours.	
	OELV-15min: 100 ppm 15 minutes.	
Xylene	OELV-15min: 384 mg/m ³ 15 minutes. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed	
	through skin. Notes: EU derived Occupational Exposure Limit	
	Values	
	OELV-8hr: 50 ppm 8 hours.	
	OELV-8hr: 221 mg/m ³ 8 hours.	
	OELV-011. 221 mg/m o hours. OELV-15min: 100 ppm 15 minutes.	
	OELV-15min: 442 mg/m ³ 15 minutes.	
2-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU	
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	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 275 mg/m ³ 8 hours.
	OELV-011: 273 mg/m o hours. OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 550 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EL
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-0111: 442 mg/m o hours. OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m ³ 15 minutes.
Maleic anhydride	NAOSH (Ireland, 5/2021). Sensitization potential. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and
	Vapour note is used when a material exerts sufficient vapour
	pressure such that it may be present in both particle and vapour
	phases.
acetone	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	8 hours: 500 ppm 8 hours.
B (1) (1)	8 hours: 1210 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Foluene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 mg/m ³ 8 hours.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020)
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 275 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 550 mg/m ³ 15 minutes.
Ethylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	•
	8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m ³ 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m ³ 15 minutes.
acetone	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 1210 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
Toluene	
Ioluene	Absorbed through skin.
loluene	Absorbed through skin. TWA: 50 mg/m³ 8 hours.

	STEL: 150 mg/m ³ 15 minutes.
	TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.
Xylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
- <u>,</u>	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.
Ethylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
Maleic anhydride	STEL: 884 mg/m ³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 1 mg/m ³ 8 hours.
acetone	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 1210 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
	STEL: 2420 mg/m ³ 15 minutes.
n Butul apatata	STEL: 1000 ppm 15 minutes.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Toluene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Xylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 250 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 400 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
-	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
Maleic anhydride	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin
,	sensitiser. Inhalation sensitiser.
	TWA: 1.2 mg/m ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.

acetone	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
-	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Toluene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
Kylene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). [xylenes, mixed isomers, pure]
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Matheway 1 methydethyd egetete	STEL: 442 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
Lityidenzene	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
	C C
acetone	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 500 ppm 8 hours.
Det la state	TWA: 1210 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
oluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
(ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupation
	exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Mothowy 1 mothy lathy 1 c 4-4-	STEL: 442 mg/m ³ 15 minutes.
P-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Ethylbenzene of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Ministry of Social Affairs and Employment, Legal limit values acetone (Netherlands, 12/2022). STEL,15-min: 2420 mg/m³ 15 minutes. OEL, 8-h TWA: 1210 mg/m³ 8 hours. OEL, 8-h TWA: 500 ppm 8 hours. STEL,15-min: 1000 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours. Toluene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL,15-min: 384 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values **Xylene** (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL. 8-h TWA: 47.5 ppm 8 hours. 2-Methoxy-1-methylethyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 550 mg/m³ 8 hours. OEL, 8-h TWA: 100 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values Ethylbenzene (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m³ 8 hours. STEL,15-min: 430 mg/m³ 15 minutes. STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative acetone limit value TWA: 125 ppm 8 hours. TWA: 295 mg/m³ 8 hours. n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Toluene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. **Xylene** FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through 2-Methoxy-1-methylethyl acetate skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours.

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SECTION 8: Exposure controls/personal protection FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through Ethylbenzene skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Maleic anhydride TWA: 0.2 ppm 8 hours. TWA: 0.8 mg/m³ 8 hours. Regulation of the Minister of Family, Labor and Social Policy acetone of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 600 mg/m³ 8 hours. STEL: 1800 mg/m³ 15 minutes. n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes. Toluene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. **Xylene** Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. 2-Methoxy-1-methylethyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 260 mg/m³ 8 hours. STEL: 520 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy Ethylbenzene of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 200 mg/m³ 8 hours. STEL: 400 mg/m³ 15 minutes. Maleic anhydride Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible

concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

2/2021). Absorbed through skin. TWA: 0.5 mg/m³ 8 hours. STEL: 1 mg/m³ 15 minutes.

SECTION 8: Exposure controls/personal protection Portuguese Institute of Quality (Portugal, 11/2014). acetone TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). n-Butyl acetate TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). Absorbed Toluene through skin. TWA: 20 ppm 8 hours. **Xylene** Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ethylbenzene Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Skin Maleic anhydride sensitiser. TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapor acetone HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1210 mg/m³ 8 hours. VLA: 500 ppm 8 hours. HG 1218/2006, Annex 1, with subsequent modifications and n-Butyl acetate additions (Romania, 3/2021). VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes. Toluene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. **Xylene** HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and 2-Methoxy-1-methylethyl acetate additions (Romania, 3/2021). Absorbed through skin. VLA: 275 mg/m³ 8 hours.

VLA: 50 ppm 8 hours.

VLA: 442 mg/m³ 8 hours. VLA: 100 ppm 8 hours.

additions (Romania, 3/2021). VLA: 1 mg/m³ 8 hours. VLA: 0.25 ppm 8 hours.

Short term: 3 mg/m³ 15 minutes. Short term: 0.75 ppm 15 minutes.

Short term: 550 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

Short term: 884 mg/m³ 15 minutes. Short term: 200 ppm 15 minutes.

Ethylbenzene

Maleic anhydride

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HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

HG 1218/2006, Annex 1, with subsequent modifications and

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SECTION 8: Exposure controls/personal protection Government regulation SR c. 355/2006 (Slovakia, 9/2020). acetone TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours. Government regulation SR c. 355/2006 (Slovakia, 9/2020). n-Butyl acetate [Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Toluene Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. **Xylene** Government regulation SR c. 355/2006 (Slovakia, 9/2020). [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m³, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m³, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.

Absorbed through skin. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

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

TWA: 0.41 mg/m³ 8 hours. TWA: 0.1 ppm 8 hours.

TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours.

TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

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

sensitiser.

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

Government regulation SR c. 355/2006 (Slovakia, 9/2020).

Government regulation SR c. 355/2006 (Slovakia, 9/2020).

Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin

Regulation on protection of workers from the risks related to

exposure to chemical substances at work (Slovenia, 5/2021).

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

Regulation on protection of workers from the risks related to

[xylene (mixture of isomers)] Absorbed through skin.

KTV: 1000 ppm, 4 times per shift, 15 minutes. KTV: 2420 mg/m³, 4 times per shift, 15 minutes.

KTV: 723 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes.

KTV: 384 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.

KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.

- 2-Methoxy-1-methylethyl acetate
- Ethylbenzene
- Maleic anhydride
- acetone
- n-Butyl acetate

- Toluene

- **Xylene**

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		exposure to chemical substances at work (Slovenia, 5/2021).
		Absorbed through skin. TWA: 275 mg/m³ 8 hours.
		TWA: 275 fig/in ² 8 hours. TWA: 50 ppm 8 hours.
		KTV: 550 mg/m ³ , 4 times per shift, 15 minutes.
		KTV: 100 ppm, 4 times per shift, 15 minutes.
	Ethylbenzene	Regulation on protection of workers from the risks related to
		exposure to chemical substances at work (Slovenia, 5/2021).
		Absorbed through skin.
		TWA: 442 mg/m ³ 8 hours.
		TWA: 100 ppm 8 hours.
		KTV: 884 mg/m ³ , 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes.
	Maleic anhydride	Regulation on protection of workers from the risks related to
		exposure to chemical substances at work (Slovenia, 5/2021).
		TWA: 0.41 mg/m ³ 8 hours.
		TWA: 0.1 ppm 8 hours.
		KTV: 0.41 mg/m ³ , 4 times per shift, 15 minutes.
		KTV: 0.1 ppm, 4 times per shift, 15 minutes.
	acetone	National institute of occupational safety and health (Spain,
		4/2022).
		TWA: 500 ppm 8 hours.
	n Dutul exectete	TWA: 1210 mg/m ³ 8 hours.
	n-Butyl acetate	National institute of occupational safety and health (Spain, 4/2022).
		TWA: 50 ppm 8 hours.
		TWA: 241 mg/m ³ 8 hours.
		STEL: 150 ppm 15 minutes.
		STEL: 723 mg/m ³ 15 minutes.
	Toluene	National institute of occupational safety and health (Spain,
		4/2022). Absorbed through skin.
		TWA: 50 ppm 8 hours.
		TWA: 192 mg/m ³ 8 hours.
		STEL: 100 ppm 15 minutes.
	Xylene	STEL: 384 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain,
	Aylerie	4/2022). [Xylene, mixture of isomers] Absorbed through skin.
		TWA: 50 ppm 8 hours.
		TWA: 221 mg/m ³ 8 hours.
		STEL: 100 ppm 15 minutes.
		STEL: 442 mg/m ³ 15 minutes.
	2-Methoxy-1-methylethyl acetate	National institute of occupational safety and health (Spain,
		4/2022). Absorbed through skin.
		TWA: 50 ppm 8 hours.
		TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.
		STEL: 550 mg/m ³ 15 minutes.
	Ethylbenzene	National institute of occupational safety and health (Spain,
	,	4/2022). Absorbed through skin.
		TWA: 100 ppm 8 hours.
		TWA: 441 mg/m ³ 8 hours.
		STEL: 200 ppm 15 minutes.
		STEL: 884 mg/m ³ 15 minutes.
	Maleic anhydride	National institute of occupational safety and health (Spain,
		4/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.1 ppm 8 hours.
		TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m ³ 8 hours.
	acetone	Work environment authority Regulation 2018:1 (Sweden,
		9/2021).
		TWA: 250 ppm 8 hours.
		TWA: 600 mg/m ³ 8 hours.
		STEL: 500 ppm 15 minutes.
		STEL: 1200 mg/m ³ 15 minutes.
	n-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
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-	9/2021). [butyl acetate]	
	TWA: 50 ppm 8 hours.	
	TWA: 241 mg/m ³ 8 hours.	
	STEL: 150 ppm 15 minutes.	
Teluere	STEL: 723 mg/m ³ 15 minutes.	
Toluene	Work environment authority Regulation 2018:1 (Sweden,	
	9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours.	
	TWA: 50 ppm 8 hours. TWA: 192 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
	STEL: 384 mg/m ³ 15 minutes.	
Xylene	Work environment authority Regulation 2018:1 (Sweden,	
,	9/2021). [xylene] Absorbed through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 221 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
	STEL: 442 mg/m ³ 15 minutes.	
2-Methoxy-1-methylethyl acetate	Work environment authority Regulation 2018:1 (Sweden,	
	9/2021). Absorbed through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 275 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
Ethylhonzono	STEL: 550 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden,	
Ethylbenzene	9/2021). Absorbed through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 30 ppm o hours. TWA: 220 mg/m ³ 8 hours.	
	STEL: 200 ppm 15 minutes.	
	STEL: 884 mg/m ³ 15 minutes.	
Maleic anhydride	Work environment authority Regulation 2018:1 (Sweden,	
	9/2021). Skin sensitiser.	
	TWA: 0.05 ppm 8 hours.	
	TWA: 0.2 mg/m ³ 8 hours.	
	STEL: 0.1 ppm 15 minutes.	
	STEL: 0.4 mg/m ³ 15 minutes.	
acetone	SUVA (Switzerland, 1/2023).	
	TWA: 500 ppm 8 hours.	
	TWA: 1200 mg/m ³ 8 hours.	
	STEL: 1000 ppm 15 minutes.	
	STEL: 2400 mg/m ³ 15 minutes.	
n-Butyl acetate	SUVA (Switzerland, 1/2023).	
	TWA: 50 ppm 8 hours.	
	TWA: 240 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes.	
	STEL: 720 mg/m ³ 15 minutes.	
Toluene	SUVA (Switzerland, 1/2023). Absorbed through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 190 mg/m ³ 8 hours.	
	STEL: 200 ppm 15 minutes.	
	STEL: 760 mg/m ³ 15 minutes.	
Xylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed	
	through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 220 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
	STEL: 440 mg/m ³ 15 minutes.	
2-Methoxy-1-methylethyl acetate	SUVA (Switzerland, 1/2023).	
	TWA: 50 ppm 8 hours.	
	TWA: 275 mg/m³ 8 hours.	
	STEL: 50 ppm 15 minutes. STEL: 275 mg/m ³ 15 minutes.	
Soybean oil, epoxidized	STEL. 275 mg/m ² 15 minutes. SUVA (Switzerland, 1/2023). [triglycerides]	
	STEL: 20 mg/m ³ 15 minutes. Form: Inhalable fraction	
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction	
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.	
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	TWA: 50 ppm 8 hours.	
	TWA: 220 mg/m ³ 8 hours.	
	STEL: 50 ppm 15 minutes.	
	STEL: 220 mg/m ³ 15 minutes.	
Maleic anhydride	SUVA (Switzerland, 1/2023). Skin sensitiser.	
	TWA: 0.1 ppm 8 hours. Form: vapour and aerosols	
	TWA: 0.4 mg/m ³ 8 hours. Form: vapour and aerosols	
	STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols	
	STEL: 0.4 mg/m ³ 15 minutes. Form: vapour and aerosols	
acetone	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 3620 mg/m ³ 15 minutes.	
	STEL: 1500 ppm 15 minutes.	
	TWA: 500 ppm 8 hours. TWA: 1210 mg/m ³ 8 hours.	
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 966 mg/m ³ 15 minutes.	
	STEL: 200 ppm 15 minutes.	
	TWA: 724 mg/m ³ 8 hours.	
	TWA: 150 ppm 8 hours.	
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 384 mg/m ³ 15 minutes.	
	TWA: 191 mg/m³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	STEL: 100 ppm 15 minutes.	
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,	
	p- or mixed isomers] Absorbed through skin.	
	STEL: 441 mg/m ³ 15 minutes.	
	TWA: 50 ppm 8 hours.	
	TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.	
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 548 mg/m ³ 15 minutes.	
	TWA: 50 ppm 8 hours.	
	TWA: 274 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 552 mg/m ³ 15 minutes.	
	STEL: 125 ppm 15 minutes.	
	TWA: 100 ppm 8 hours.	
	TWA: 441 mg/m ³ 8 hours.	
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 560 mg/m ³ 15 minutes.	
	STEL: 150 ppm 15 minutes.	
	TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.	
Maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation	
	sensitiser.	
	STEL: 3 mg/m ³ 15 minutes.	
	TWA: 1 mg/m ³ 8 hours.	

Biological exposure indices

Product/ingredient na	me		Exposure indices			
Toluene		BEI Fitness: 0.8 m BEI Fitness: 13000 blood count) [in bloo BEI Fitness: 15000 year.	9/2020) g/l, toluene [in blood]. Si g/l, o-cresol [in urine]. S 10 /μl, platelets (non-pat od]. Sampling time: one 10 /μl, platelets [in blood to 13000 /μl, leukocytes	ampling tim hological di year.]. Sampling	ie: one fferentia time: c	year. al
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		differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling
		time: one year. BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling
		time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood].
		Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time:
		one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.
	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.
	No exposure indices known.	
	acetone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 80 mg/l, acetone [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
	Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
	Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
	acetone	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 20 mg/g creatinine, acetone [in urine]. Sampling time: at the
		end of the work shift. BEI: 39 mmol/mol creatinine, acetone [in urine]. Sampling time: at
		the end of the work shift. BEI: 20 mg/l, acetone [in blood]. Sampling time: at the end of the
		work shift. BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.
	Toluene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)
		BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.
		BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.
		BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.
		BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift.
		BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the
		end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling
		time: at the end of the work shift. BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.
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Xylene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL	
	(Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the	
	work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of	
	the work shift.	
	BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.	
	BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling	
	time: at the end of the work shift.	
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL	
	(Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during	
	exposure.	
	BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.	
	BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling	
	time: at the end of the work shift and at the end of the working week.	
	BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at	
	the end of the work shift and at the end of the working week.	
No exposure indices known.		
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.	
Xylene	Government regulation of Czech Republic Limit Values of	
	Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric	
	acid [in urine]. Sampling time: end of the shift.	
	Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.	
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)	
	Biological limit values: 1100 µmol/mmol creatinine, almond acid	
	[in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in	
	urine]. Sampling time: end of the shift.	
No exposure indices known.		
No exposure indices known.		
No exposure indices known.		
Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)	
	BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning	
	after the working day.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs	
	(Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the	
	end of the work shift.	
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs	
Date of issue/Date of revision : 12/0	03/2024 Date of previous issue : No previous validation Version : 1 28/49	

SECTION 8: Exposure controls/personal protection (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period. No exposure indices known. acetone DFG BEI-values list (Germany, 7/2022) BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 80 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift. DFG BEI-values list (Germany, 7/2022) Notes: danger from Toluene percutaneous absorption (see p. 211 and p. 228). BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts. BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift. DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] **Xylene** Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift. DFG BEI-values list (Germany, 7/2022) Notes: danger from Ethylbenzene percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. No exposure indices known. acetone 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1380 µmol/l, acetone [in urine]. Sampling time: at the end of the shift. BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the shift. Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].

 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time at the end of the working week; at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. NAOSH (Ireland, 1/2011) BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. 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: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. 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: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. 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: 0.3 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.
NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative 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.
Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

acetone	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
	BEI: 50 mg/l, acetone [in urine]. Sampling time: end of snift.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end c
	shift.
	BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
acetone	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
Foluene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)
	OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.
Xylene	HG 1218/2006, Annex 2, with subsequent modifications and
	additions (Romania, 3/2020) [Xylene]
	OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and
	additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
acetone	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 103.9 μmol/mmol creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift.
	BLV: 53.36 mg/g creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift.
	BLV: 1378 µmol/l, acetone [in urine]. Sampling time: at the end of
	exposure or work shift. BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of
	exposure or work shift.
Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020)
	BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine].
	Sampling time: at the end of exposure or work shift. BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling
	time: at the end of exposure or work shift; long-term exposure:
	after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time
	at the end of exposure or work shift.
	BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after
	several work shifts.
	BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
	BLV: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of
	exposure or work shift; long-term exposure: after several work shifts.
	BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of
	exposure or work shift. BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end

SECTION 8: Exposure	e controls/personal protection
	of exposure or work shift. BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 105 mg/l, sum of 2,3,4-methylhippuroic acids [in urine].
Ethylbenzene	 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure: after several work shift; long-term exposure: after several work shift; long-term exposure: after several work shift. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shift. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shifts.
acetone	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 80 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.
Toluene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 600 μ g/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μ g/l, toluene [in urine]. Sampling time: at the end of the work shift.
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	Xylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
	Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
	acetone	National institute of occupational safety and health (Spain, 4/2022)
		VLB: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
	Toluene	National institute of occupational safety and health (Spain, 4/2022)
		VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
		VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.
		VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.
	Xylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes]
		VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
	Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022)
		VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
	No exposure indices known.	
	acetone	SUVA (Switzerland, 1/2023) BEI: 50 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 0.86 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.
	Toluene Xylene	 SUVA (Switzerland, 1/2023) BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long- term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time:
	Ethylbenzene	immediately after exposure or after working hours. SUVA (Switzerland, 1/2023)
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SECTION 8: Exposure	20111 013/pe	BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
Xylene		EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
Recommended monitoring : procedures	European Stand assessment of e values and mea	Id be made to monitoring standards, such as the following: lard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment

of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

n Oral 62 mg/k bw/day n Dermal 62 mg/k bw/day n Dermal 186 mg, bw/day n 200 mg, n 1210 mg n 1210 mg n 3 n 2420 mg n 3 n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	population kg General population workers g/m ³ General population workers g/ Workers g/ Workers g/ General population g/ General population g/ General	Systemic Systemic Systemic Systemic Systemic Local Systemic
n Dermal 62 mg/k bw/day n Dermal 186 mg, bw/day n 200 mg, n 1210 m m ³ n 1210 m m ³ n Oral 2420 m m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day	kg General population J/kg Workers J/m ³ General population Morkers g/ Workers g General population g General population g General	Systemic Systemic Systemic Local
bw/day h Dermal 186 mg, bw/day 200 mg, h 1210 mg m ³ n 2420 mg m ³ n Oral 2 mg/kg bw/day h Oral 2 mg/kg bw/day n Dermal 6 mg/kg	population Workers g/m ³ General population Workers g/ Workers g General population g General	Systemic Systemic Systemic Local
bw/day h Dermal 186 mg, bw/day 200 mg, h 1210 mg m ³ n 2420 mg m ³ n Oral 2 mg/kg bw/day h Oral 2 mg/kg bw/day n Dermal 6 mg/kg	population Workers g/m ³ General population Workers g/ Workers g General population g General	Systemic Systemic Systemic Local
n Dermal 186 mg, bw/day n 200 mg, n 1210 mg n 1210 mg m ³ n 2420 mg n 0ral 2 mg/kg bw/day n 0ral 2 mg/kg bw/day n Dermal 6 mg/kg	y/kg Workers y/m ³ General population workers g/ Workers g General population g General population g General	Systemic Systemic Local
bw/day 1210 mg 1210 mg 1210 mg 1210 mg m ³ 12420 mg m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Oral 6 mg/kg	y/m ³ General population workers g General population g General	Systemic Systemic Local
n 200 mg, n 1210 mg, n 2420 mg, n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	y/m ³ General population workers g General population g General	Systemic Local
n 1210 mg m ³ n 2420 mg m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day m Dermal 6 mg/kg	population g/ Workers g General population g General	Systemic Local
n 1210 mg m ³ n 2420 mg m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	ng/ Workers ng/ Workers g General population g General	Local
n m ³ n 2420 m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	ng/ Workers g General population g General	Local
n Oral 2420 mg m ³ n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	g General population g General	
n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day bw/day n Dermal 6 mg/kg	g General population g General	
n Oral 2 mg/kg bw/day n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	population g General	Systemic
h Oral 2 mg/kg bw/day bw/day n Dermal 6 mg/kg	population g General	Systemic
n Oral 2 mg/kg bw/day n Dermal 6 mg/kg	g General	
bw/day n Dermal 6 mg/kg		Svetemie
n Dermal 6 mg/kg	nonulation	Systemic
00		O. un traversite
	5	Systemic
bw/day		
n Dermal 11 mg/k		Systemic
bw/day		
n 35.7 mg		Local
1	population	
n 300 mg,	J/m³ General	Local
1	population	
n 300 mg/	J/m³ General	Systemic
1	population	
n 300 mg/	/m ³ Workers	Local
n Ŭ		
n 600 mg	/m³ Workers	Local
n J		
n 600 mg	/m³ Workers	Systemic
1		- ,
n Dermal 3.4 mg/l	/kg General	Systemic
bw/day		-,
n Dermal 7 mg/kg		Systemic
bw/day		
n 12 mg/r		Systemic
1 12 mg/i	population	Cystonic
n 48 mg/r		Systemic
5		Gysternic
	d General	Systemic
		Systemic
		Local
n 56.5 mg	population	
n 56.5 mg		Version : 1 34/
٦	n Oral 8.13 mg kg bw/d n 56.5 mg	n Oral 8.13 mg/ General kg bw/day population n 56.5 mg/m ³ General population

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DNEL	Long term	$bb h ma/m^{3}$	General	Suptomio
	Inhalation	56.5 mg/m ³	population	Systemic
DNEL	Long term	192 mg/m³	Workers	Local
DNEL	Long term	192 mg/m³	Workers	Systemic
DNEL	Inhalation Long term Dermal	226 mg/kg	General	Systemic
			population	1 1
DNEL		226 mg/m ³		Local
DNEL	Short term	226 mg/m ³	General	Systemic
DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
DNEL	Short term	384 mg/m ³	Workers	Local
DNEL	Short term	384 mg/m³	Workers	Systemic
DNEL	Long term	65.3 mg/m³		Local
DNEL		260 ma/m ³		Local
	Inhalation	Ū	population	
DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic
DNEL	Long term Inhalation	65.3 mg/m ³	General	Systemic
DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
DNEL	Short term	442 mg/m ³	Workers	Local
DNEL	Short term	442 mg/m ³	Workers	Systemic
DNEL	Long term	33 mg/m³	General	Local
DNEL	Long term	33 mg/m³	General	Systemic
DNEL	Long term Oral	36 mg/kg bw/day	General	Systemic
DNEL	Long term	275 mg/m ³	Workers	Systemic
DNEL	Long term Dermal	320 mg/kg bw/day	General	Systemic
DNEL	Short term	550 mg/m ³	Workers	Local
DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
DNEL	Long term Oral	1.6 mg/kg	General	Systemic
DNEL	Long term	15 mg/m ³	General	Systemic
DNEL	Long term	77 mg/m³	Workers	Systemic
DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
DNEL	Short term	293 mg/m ³	Workers	Local
DMEL	Inhalation Long term Inhalation	442 mg/m ³	Workers	Local
	DNEL	DNELLong term Inhalation DNELLong term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELShort term Inhalation DNELShort term Inhalation DNELDNELLong term Inhalation DNELLong term DermalDNELLong term Inhalation DNELShort term Inhalation DNELDNELLong term Inhalation DNELShort term Inhalation DNELDNELLong term Inhalation 	DNELLong term Inhalation192 mg/m³ InhalationDNELLong term Dermal226 mg/kg bw/dayDNELShort term Inhalation226 mg/m³ InhalationDNELShort term Inhalation226 mg/m³DNELShort term Inhalation226 mg/m³DNELShort term Inhalation384 mg/m³DNELShort term Inhalation384 mg/m³DNELShort term Inhalation384 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation221 mg/m³DNELShort term Inhalation221 mg/m³DNELLong term Oral Inhalation12.5 mg/kg bw/dayDNELLong term Dermal Inhalation125 mg/kg bw/dayDNELLong term Dermal Inhalation221 mg/m³DNELLong term Dermal Inhalation221 mg/m³DNELLong term Dermal Inhalation221 mg/m³DNELLong term Dermal Inhalation33 mg/m³DNELLong term Inhalation33 mg/m³DNELLong term Inhalation33 mg/m³DNELLong term Oral36 mg/kgDNELLong term Dermal Inhalation320 mg/kgDNELLong term Dermal Inhalation320 mg/kgDNELLong term Dermal Inhalation796 mg/kgDNELLong term Dermal Inhalation796 mg/kgDNEL <t< td=""><td>DNELLong term Inhalation192 mg/m³WorkersDNELLong term Inhalation192 mg/m³WorkersDNELLong term Dermal Inhalation226 mg/kg bw/dayGeneral populationDNELShort term Inhalation226 mg/m³General populationDNELShort term Inhalation226 mg/m³General populationDNELLong term Dermal Inhalation384 mg/m³WorkersDNELShort term Inhalation384 mg/m³WorkersDNELShort term Inhalation65.3 mg/m³General populationDNELShort term Inhalation260 mg/m³General populationDNELLong term Inhalation260 mg/m³General populationDNELLong term Inhalation221 mg/m³WorkersDNELLong term Inhalation221 mg/m³General populationDNELLong term Oral Inhalation125 mg/kg bw/dayGeneral populationDNELLong term Dermal Inhalation125 mg/kg bw/dayGeneral populationDNELLong term Dermal Inhalation125 mg/kg bw/dayWorkersDNELLong term Oral Inhalation33 mg/m³General populationDNELLong term Oral Inhalation33 mg/m³General populationDNELLong term Oral Inhalation36 mg/kg bw/dayWorkersDNELLong term Oral Inhalation36 mg/kg bw/dayGeneral populationDNELLong term Oral36</td></t<>	DNELLong term Inhalation192 mg/m³WorkersDNELLong term Inhalation192 mg/m³WorkersDNELLong term Dermal Inhalation226 mg/kg bw/dayGeneral populationDNELShort term Inhalation226 mg/m³General populationDNELShort term Inhalation226 mg/m³General populationDNELLong term Dermal Inhalation384 mg/m³WorkersDNELShort term Inhalation384 mg/m³WorkersDNELShort term Inhalation65.3 mg/m³General populationDNELShort term Inhalation260 mg/m³General populationDNELLong term Inhalation260 mg/m³General populationDNELLong term Inhalation221 mg/m³WorkersDNELLong term Inhalation221 mg/m³General populationDNELLong term Oral Inhalation125 mg/kg bw/dayGeneral populationDNELLong term Dermal Inhalation125 mg/kg bw/dayGeneral populationDNELLong term Dermal Inhalation125 mg/kg bw/dayWorkersDNELLong term Oral Inhalation33 mg/m³General populationDNELLong term Oral Inhalation33 mg/m³General populationDNELLong term Oral Inhalation36 mg/kg bw/dayWorkersDNELLong term Oral Inhalation36 mg/kg bw/dayGeneral populationDNELLong term Oral36

	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
Fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
C16-18-unsatd., maleated	DINEE	Long tonn ordi	bw/day	population	Cysternie
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
			bw/day	population	- ,
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
Maleic anhydride	DNEL	Long term Inhalation	0.081 mg/ m ³	Workers	Local
	DNEL	Long term	0.081 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.2 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.08 mg/m ³		Local
	DNEL	Short term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic

PNECs

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No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Date of issue/Date of revision	: 12/03/2024 Date of previous issue : No previous validation Version : 1 36/49

SECTION 8: Exposure controls/personal protection

	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	
boiling range	:

Ingredient name		°C	°F	Method	
acetone		56.05	132.9		
Toluene		110.6	231.1		
Flammability	: Not ava	ailable.			
Lower and upper explosion limit	: Lower: Upper:				
Flash point	: Closed	cup: -19°C	(-2.2°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-Methoxy-1-methylethyl acetate		333	631.4	DIN 51794	
n-Butyl acetate		415	779	EU A.15	
Decomposition temperature	: Not ava	ailable.			
рН	: Not ava	ailable.			
Viscosity	: Not ava	ailable.			
Solubility(ies) Not available.	:				
Solubility in water	: Not ava	ailable.			

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: No previous validation

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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
acetone	180.01463	24				
Toluene	23.17	3.1				
Relative density	: Not	available.				
Density	: 0.9	g/cm³				
/apour density	: Not	available.				
Explosive properties	: Not	available.				
Oxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

: No previous validation

SECTION 11: Toxicological information

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
	16979.36 mg/kg 135.21 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
acetone	Eyes - Mild irritant	Human	-	186300 ppm	-	
	Eyes - Mild irritant	Rabbit	-	10 uL	-	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-	
	Eyes - Severe irritant	Rabbit	_	mg 20 mg	_	
	Skin - Mild irritant	Rabbit	-	395 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-	
				mg		
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	
Toluene	Eyes - Mild irritant	Rabbit	-	mg 0.5 minutes	-	
				100 mg		
	Eyes - Mild irritant	Rabbit	-	870 ug	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-	
	,			mg		
	Skin - Mild irritant	Pig	-	24 hours 250	-	
				uL		
	Skin - Mild irritant	Rabbit	-	435 mg	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-	
	Skin - Moderate irritant	Rabbit	_	mg 500 mg	-	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-	
, (, . ,	Eyes - Severe irritant	Rabbit	-	24 hours 5	-	
	,			mg		
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-	
	Skin - Moderate irritant	Rabbit	-	100 %	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	
Ethylhonzono	Even Sovere irritent	Rabbit		mg		
Ethylbenzene	Eyes - Severe irritant Skin - Mild irritant	Rabbit	-	500 mg 24 hours 15	-	
		TADDIT	-	mg	-	
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-	
Conclusion/Summary	: Causes skin irritation.					
Sensitisation						
Conclusion/Summary	: May cause an allergic skin	reaction.				
Mutagenicity	, 3					
Conclusion/Summary	: Based on available data, th	ne classification o	riteria are	not met		
Carcinogenicity				. not mot		
Conclusion/Summary	: Based on available data, th	a classification o	ritoria ara	not met		
				not met.		
Reproductive toxicity						
Conclusion/Summary	: Based on available data, the classification criteria are not met.					
Teratogenicity						
_ · · ·						

Conclusion/Summary : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-
Xylene	Category 2	oral, inhalation	-
Ethylbenzene	Category 2	oral, inhalation	hearing organs
Maleic anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

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

Information on likely routes : Not available.

ot	exp)0S	ure	

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

SECTION 11: Toxicological information

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 eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Not available.
11.2.2 Other information
Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - <i>Gasterosteus aculeatus</i> - Larvae	42 days
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> <i>pseudolimnaeus</i> - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Based on availa

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

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

SECTION 12: Ecological information				
LogPow	BCF	Potential		
-0.23	-	Low		
2.3	-	Low		
2.73	90	Low		
3.12	8.1 to 25.9	Low		
1.2	-	Low		
3.6	-	Low		
-2.78	-	Low		
	LogPow -0.23 2.3 2.73 3.12 1.2 3.6	LogPow BCF -0.23 - 2.3 - 2.73 90 3.12 8.1 to 25.9 1.2 - 3.6 -		

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (acetone, n- butyl acetate)	FLAMMABLE LIQUID, N.O.S. (acetone, n- butyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate)	FLAMMABLE LIQUID N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate)
14.3 Transport hazard class(es)	3	3		3
14.4 Packing group	II	II	11	11
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informa ADR/RID ADN	: <u>Special p</u> <u>Tunnel co</u> : The produ transporte	<u>rovisions</u> 640 (C) <u>ode</u> (D/E) ict is only regulated as an id in tank vessels. <u>rovisions</u> 640 (C)	environmentally hazardo	ous substance when
IMDG		e pollutant mark is not re	quired when transported	in sizes of ≤5 L or ≤5 kc
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations. 			
14.6 Special precau user	upright an	t within user's premises d secure. Ensure that per of an accident or spillage.	sons transporting the pro	
14.7 Maritime trans bulk according to I instruments		int/applicable due to natur	e of the product.	

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
OWEDUR 4193-10	≥90	3
Toluene	≥10 - ≤25	48

Labelling

Other EU regulations

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	Industrial emissions (integrated pollution prevention and control) - Air	: Listed
	Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
	Explosive precursors	: Not applicable.
	Ozone depleting substand Not listed.	<u>ces (1005/2009/EU)</u>
	Prior Informed Consent (F Not listed.	<u>PIC) (649/2012/EU)</u>
	Persistent Organic Polluta Not listed.	ants
	Seveso Directive	
	This product is controlled up Danger criteria	nder the Seveso Directive.
	Catagony	

	Category
	P5c
<u>Na</u>	tional regulations

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

Ingredient name	Annex I Section A	Annex I Section B
Ethylbenzene	Listed	-

MAL-code	: 4-3
Protection based on MAL	: According to the regulations on work involving coded products, the following
	stipulations apply to the use of personal protective equipment:

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

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

		MAL-code: 4-3 Application: When spraying in new* booths zone. When using scraper or knife, brush, ro outside a closed facility, spray booth or spray	ller, etc. for pre- and post-treatments
		- Air-supplied half mask and eye protection m	nust be worn.
		When using scraper or knife, brush, roller, etc cabins or booths of the existing* facility type,	
		- Air-supplied half mask, coveralls and eye pr	otection must be worn.
		During downtimes, cleaning and repair in clos there is a risk of contact with wet paint or org	
		- Air-supplied full mask and coveralls must be	e worn.
		When spraying in existing* spray booths, if th	e operator is outside the spray zone
		- Air-supplied full mask, arm protectors and a	pron must be worn.
		During non-atomising spraying in existing* factors and spray-booth type where the operated	
		- Air-supplied full mask must be worn.	
		During all spraying where atomisation occurs operator is inside the spray zone and during s or booth.	
		- Air-supplied full mask, coveralls and hood n	nust be worn.
		Drying: Items for drying/drying ovens that an rack trolleys, etc, must be equipped with a me fumes from wet items from passing through Polishing: When polishing treated surfaces. When machine grinding, eye protection must	echanical exhaust system to prevent vorkers' inhalation zone. a mask with dust filter must be wor
		worn.	
		Caution The regulations contain other stipul	ations in addition to the above.
l aus hailinn linuida		*See Regulations.	
Low-boiling liquids	1	This product contains low-boiling point liquids should be air-fed.	a. Any respiratory protective equipme
Restrictions on use	:	Not to be used by professional users below 1 Working Environment Authorities Executive 0	
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains by Danish working environment legislation or	
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7	:	acetone n-Butyl acetate Toluene	RG 84 RG 84 RG 4bis, RG 84
		Xylene	RG 4bis, RG 84
		2-Methoxy-1-methylethyl acetate	RG 84
		Ethylbenzene Maleic anhydride	RG 84 RG 66

Label No :69566

Reinforced	medical
surveillance	e

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 3	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 55.4% TA-Luft Class I - Number 5.2.5: 22.7%	
<u>Italy</u>		
	Not determined	

D.Lgs. 152/06 : Not determined.

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
tolueen xylene	-	-	-	Development 2 Development 2	-
Water Discharge Po (ABM)			itic organisms, may h contamination effort: <i>A</i>		ardous effects in
<u>Norway</u> <u>Sweden</u>					
Flammable liquid cla (SRVFS 2005:10)	ass : 1				
Switzerland					
VOC content	: VOC (w/	/w): 74%			
nternational regulation	ons				
Chemical Weapon Co	nvention List Sch	edules I, II & III	<u>Chemicals</u>		
Not listed.					
Iontreal Protocol Not listed.					
itockholm Conventic	on on Persistent O	erganic Pollutan	<u>ts</u>		
Rotterdam Conventio Not listed.	on on Prior Inform	ed Consent (PIC	<u>.</u>		
INECE Aarhus Proto Not listed.	col on POPs and	<u>Heavy Metals</u>			
.2 Chemical safety	: This pro		ostances for which Ch	nemical Safety Ass	essments are stil

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive	the classification according to Population (EC) No. 1272/2008 [CLP/GHS]

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

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

Full text of abbreviated H statements

	lighly flammable liquid and vapour.
H226 FI	lammable liquid and vapour.
H302 H	larmful if swallowed.
H304 M	lay be fatal if swallowed and enters airways.
H312 H	larmful in contact with skin.
H314 C	auses severe skin burns and eye damage.
H315 C	auses skin irritation.
H317 M	lay cause an allergic skin reaction.
	auses serious eye damage.
H319 C	auses serious eye irritation.
H332 H	larmful if inhaled.
H334 M	lay cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 M	lay cause respiratory irritation.
H336 M	lay cause drowsiness or dizziness.
H361d S	uspected of damaging the unborn child.
H372 C	auses damage to organs through prolonged or repeated exposure.
H373 M	lay cause damage to organs through prolonged or repeated exposure.
	oxic to aquatic life with long lasting effects.
EUH066 R	epeated exposure may cause skin dryness or cracking.
EUH071 C	corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - 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
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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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