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

# **SAFETY DATA SHEET**



TEKNOLAC EFFECT 164 - All variants

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

1.1 Product identifier Product name

: FEKNOLAC EFFECT 164 - All variants

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

### 1.3 Details of the supplier of the safety data sheet

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

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

# responsible for this SDS

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

### 1.4 Emergency telephone number

### National advisory body/Poison Centre

Telephone number: In an emergency, call 112

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 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.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

# **SECTION 2: Hazards identification**

SECTION 2: Hazards	IC	rentification
Prevention	:	<ul> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	:	P314 - Get medical advice/attention if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: Xylene; Toluene and Cobalt bis(2-ethylhexanoate)
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 hazards which do	:	None known.

not result in classification

# **SECTION 3: Composition/information on ingredients**

Kylene         REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9         ≥25 - ≤45         Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 (vapours)] = 11 mg/ 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]           Toluene         REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3         ≥10 - ≤15         Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT RE 2, H373 Asp. Tox. 1, H304         -         [1]           Ethylbenzene         REACH #: 01-2119489370-35 EC: 202-849.4 CAS: 100-41-4 Index: 601-023-00-4         \$9.8         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]           Propan-2-ol         REACH #: 01-211945758-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0         \$3         Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336         -         [1]	3.2 Mixtures	: Mixture				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Product/ingredient name	Identifiers	%	Classification	Limits, M-factors	Туре
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	₩ylene	01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥25 - ≤45	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)	1100 mg/kg ATE [Inhalation	[1] [2]
01-2119489370-35       Acute Tox. 4, H332       (vapours)] = 11 mg/         EC: 202-849-4       STOT RE 2, H373       (hearing organs) (oral, inhalation)         CAS: 100-41-4       Index: 601-023-00-4       Asp. Tox. 1, H304       -         Propan-2-ol       REACH #: 01-2119457558-25       ≤3       Flam. Liq. 2, H225       -       [1]         EC: 200-661-7       CAS: 67-63-0       Index: 603-117-00-0       STOT SE 3, H336       -       [1]	Toluene	01-2119471310-51 EC: 203-625-9 CAS: 108-88-3	≥10 - ≤15	Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373	-	[1] [2]
01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	Ethylbenzene	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≤9.8	Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation)		[1] [2]
Date of issue/Date of revision : 01/11/2023 Date of previous issue : 04/11/2023 Version : 9 3/	Propan-2-ol	01-2119457558-25 EC: 200-661-7 CAS: 67-63-0	≤3	Eye Irrit. 2, H319	-	[1]
	Date of issue/Date of revision	: 01/11/2023 Date	e of previous is	sue : 04/11/2022	Version : 8	2/36

SECTION 3: Com	position/informat	ion on ir	ngredients		
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119457273-39 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≤3	Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 50%	[1]
Cobalt bis (2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9	<0.3	Repr. 1B, H360D	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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: respiratory tract irritation coughing 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	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	: No specific treatment.	

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	1	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	I the substance or mixture
Hazards from the substance or mixture	-	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. 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.

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# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **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	<ul> <li>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.</li> <li>Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials should be soaked in water and placed in a closed metal container before disposal.</li> </ul>
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.

# SECTION 7: Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

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

#### **Seveso Directive - Reporting thresholds**

#### **Danger criteria** Category Notification and MAPP Safety report threshold threshold P5c 5000 tonne 50000 tonne

### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). []
	PEAK: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m <sup>3</sup> 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	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/m <sup>3</sup> , 8 times per shift, 5 minutes.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	PEAK: 800 ppm, 4 times per shift, 15 minutes.
	PEAK: 2000 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Cobalt bis(2-ethylhexanoate)	<b>Regulation on Limit Values - Technical Guidance Values</b>
	(Austria, 4/2021). [] Absorbed through skin. Skin sensitiser.
	Inhalation sensitiser.
	TWA: 0.1 mg/m <sup>3</sup> , (measured as Co) 8 hours. Form: Inhalable
	fraction
	PEAK: 0.4 mg/m <sup>3</sup> , (measured as Co), 4 times per shift, 15
	minutes. Form: Inhalable fraction
2-ethylhexanoic acid, zirconium salt	Regulation on Limit Values - MAC (Austria, 4/2021). []
	TWA: 5 mg/m <sup>3</sup> , (measured as Zr) 8 hours. Form: Inhalable
	fraction
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skin.       TWX-50 ppm 8 hours.         Toluene       TWX-50 ppm 15 minutes.         Toluene       STEL: 100 ppm 15 minutes.         Ethylbenzene       STEL: 100 ppm 15 minutes.         Ethylbenzene       Limit values (Beiglum, 5/2021). Absorbed through skin.         TVX-20 ppm 8 hours.       STEL: 34 mg/m <sup>-1</sup> 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 300 ppm 15 minutes.       STEL: 300 ppm 15 minutes.         STEL: 100 ppm 15 minutes.       STEL: 100 ppm 16 minutes.         STEL: 100 mg/m <sup>-1</sup> 16 minutes.       STEL: 100 mg/m <sup>-1</sup> 16 minutes.         STEL: 100 mg/m <sup>-1</sup> 16 minutes.       STEL: 100 mg/m <sup>-1</sup> 16 minutes.         Xylene       Ministry of Labour and Social Policy and the Ministry of Heath - Ordinance No 13/2003. (Bulgaria, 6/2021). (Kylene] Absorbed through skin.         Limit value 8 hours: 50 ppm 6 hours.       Limit value 8 hours: 50 ppm 6 hours.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heath - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Limit value 8 hours: 30 ppm 6 hours.       Limit value 8 hours: 30 ppm 6 hours.         Limit value 9 hours: 40 mg/m <sup>-1</sup> 8 hours.       Limit value 8 hours: 40 mg/m <sup>-1</sup> 8 hours.	• Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
Toluene       TWA: 221 mg/m <sup>2</sup> 8 hours.         Toluene       STEL: 100 ppm 15 minutes.         STEL: 100 ppm 8 hours.       STEL: 100 ppm 8 hours.         STEL: 100 ppm 16 minutes.       STEL: 100 ppm 16 minutes.         Ethylbenzene       STEL: 100 ppm 15 minutes.         Propan-2-ol       Limit values (Belgium, 5/2021). Absorbed through skin.         TWA: 27 mg/m <sup>2</sup> 8 hours.       STEL: 100 ppm 15 minutes.         STEL: 100 ppm 15 minutes.       STEL: 100 ppm 15 minutes.         STEL: 28 mg/m <sup>2</sup> 15 minutes.       STEL: 28 mg/m <sup>2</sup> 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 100 mg/m <sup>2</sup> 8 hours.       STEL: 200 ppm 15 minutes.         STEL: 100 mg/m <sup>2</sup> 16 minutes.       STEL: 100 mg/m <sup>2</sup> 16 minutes.         Z-ethylhexanoic acid. zirconium salt       Limit values (Belgium, 5/2021). [Zirconium and compounds]         TWA: 5 mg/m <sup>2</sup> (as 2/) 16 minutes.       STEL: 100 mg/m <sup>2</sup> (as 2/) 16 minutes.         Zylene       Ministry of Labour and Social Policy and the Ministry of Heath - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene]         Absorbed through skin.       Limit value 15 min: 100 ppm 15 minutes.         Limit value 15 min: 100 ppm 15 minutes.       Limit value 15 min: 100 ppm 15 minutes.         Limit value 15 min: 100 ppm 15 minutes.       Limit value 15 min: 100 ppm 15 minutes.         Limit value 15 min: 1		skin.
STEL: 100 ppm 15 minutes.         Toluene         STEL: 342 mg/m 15 minutes.         Ethylbenzene         Ethylbenzene         Limit values (Belgium, 5/2021). Absorbed through skin.         TWA: 20 ppm 8 hours.         STEL: 342 mg/m 15 minutes.         STEL: 342 mg/m 15 minutes.         STEL: 352 mg/m 15 minutes.         Limit value S Beigum, 572021, [Ziconium and compounds]         TWA: 550 mg/m 14 minutes.         Xylene         Ministry of Labour and Social Policy and the Ministry of Heath - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene]         Absorbed through skin.         Umit value 15 min: 324 mg/m 16 minutes.		
STEL: 442 mg/m <sup>4</sup> 15 minutes.         Toluene       Limit values (Belgium, 5/2021). Absorbed through skin.         TWA: 77 mg/m <sup>4</sup> 8 hours.       STEL: 349 mg/m <sup>4</sup> 15 minutes.         Ethylbenzene       STEL: 349 mg/m <sup>4</sup> 15 minutes.         Propan-2-ol       Limit values (Belgium, 5/2021). Absorbed through skin.         TWA: 77 mg/m <sup>4</sup> 8 hours.       STEL: 351 mg/m <sup>4</sup> 15 minutes.         STEL: 352 mg/m <sup>4</sup> 15 minutes.       STEL: 352 mg/m <sup>4</sup> 15 minutes.         Propan-2-ol       Limit values (Belgium, 5/2021).         Z-ethylhexanoic acid, zirconium salt       STEL: 100 mg/m <sup>4</sup> 15 minutes.         2-ethylhexanoic acid, zirconium salt       STEL: 100 mg/m <sup>4</sup> 15 minutes.         Xylene       Winistry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Timi value 8 hours: 100 mg/m <sup>4</sup> 15 minutes.       Limit value 8 hours: 100 mg/m <sup>4</sup> 15 minutes.         Limit value 15 min: 100 ppm 16 minutes.       Limit value 15 min: 100 ppm 16 minutes.         Limit value 15 min: 100 ppm 16 minutes.       Limit value 15 min: 100 ppm 16 minutes.         Limit value		
TWA: 20 ppm 8 hours. STEL: 340 ppm 8 hours. STEL: 340 ppm 8 hours. STEL: 350 ppm 8 hours. 		
TWA: 77 mg/m*8 hours.         STEL: 100 ppm 15 minutes.         Ethylbenzene         Limit values (Belgium, 5/2021). Absorbed through skin.         TWA: 20 ppm 8 hours.         STEL: 123 ppm 16 minutes.         Propan-2-ol         Z-ethylhexanoic acid, zirconium sait         Limit values (Belgium, 5/2021). (Zirconium and compounds)         TWA: 80 mg/m*8 hours.         STEL: 125 ppm 16 minutes.         STEL: 100 mg/m*15 minutes.         STEL: 100 mg/m*16 minutes.         Limit values (Belgium, 6/2021). [Zirconium and compounds]         TWA: 50 mg/m*16 minutes.         Limit values (Bours: 60 ppm 8 hours.         Coluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Absorbed through skin.         Limit value 8 hours: 30 ppm 15 minutes.         Limit value 15 min: 343 mg/m*15 minutes.         Limit value 8 hours: 30 ppm 15 minutes.         Limit value 8 hours: 30 ppm 15 minutes.         Limit value 8 hours: 30 ppm 15 minutes.	Toluene	
STEL: 100 ppm 15 minutes.         STEL: 304 mgm <sup>21</sup> 56 minutes.         Ethylbenzene         Limit values (Belgium, 52021), Absorbed through skin.         TWA: 87 mg/m <sup>2</sup> 15 minutes.         STEL: 551 mg/m <sup>21</sup> 15 minutes.         STEL: 551 mg/m <sup>21</sup> 15 minutes.         STEL: 551 mg/m <sup>21</sup> 15 minutes.         STEL: 500 mg/m <sup>21</sup> 8 hours.         STEL: 100 opm 15 minutes.         STEL: 100 mg/m <sup>21</sup> 16 minutes.         STEL: 100 mg/m <sup>21</sup> 16 minutes.         STEL: 100 mg/m <sup>21</sup> 16 minutes.         Limit values 8 hours: 50 pm 8 hours.         STEL: 100 mg/m <sup>21</sup> 16 minutes.         Limit value 15 min: 100 pm <sup>21</sup> 15 minutes.         Limit value 15 min: 100 pm <sup>21</sup> 15 minutes.         Limit value 8 hours: 50 pm 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 8 hours: 50 pm 8 hours.         Limit value 8 hours: 50 pm 8 hours.         Limit value 8 hours: 50 pm 8 hours.         Limit value 8 hours: 50 pm 8 hours		
STEL: 384 mg/m² 15 minutes.EthylbenzeneLimit values (Belgium, 5/2021), Absorbed through skin. TWA: 20 ppm 8 hours. STEL: 551 mg/m² 16 minutes. STEL: 551 mg/m² 16 minutes. STEL: 551 mg/m² 16 minutes. STEL: 125 ppm 15 minutes. STEL: 120 ppm 16 minutes. STEL: 1000 ppm 18 hours. TWA: 500 ppm 8 hours. STEL: 1000 ppm 16 minutes. STEL: 100 mg/m² 16 minutes. Limit values (Belgium, 52021), [Zirconium and compounds] TWA: 5 mg/m², (as Zr) 8 hours. STEL: 100 mg/m² 16 minutes. Limit values (Belgium 52021), [Zirconium and compounds] TWA: 5 mg/m², (as Zr) 8 hours. STEL: 100 mg/m² 16 minutes. Limit values 8 hours: 521 mg/m² 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Limit value 9 hours: 50 ppm 8 hours. Limit value 8 hours: 435 mg/m² 8 hours. Limit value 8 hours: 435 mg/m² 8 hours. Limit value 8 hours: 435 mg/m² 8 hours. Limit value 9 hours: 122 mg/m² 8 hours. Limit value 8 hours: 122 mg/m² 8 hour		
Ethylbenzene       Limit values (Belgium, 52021). Absorbed through skin.         TWA: 87 mg/m <sup>3</sup> 8 hours.       TWA: 87 mg/m <sup>3</sup> 8 hours.         Propan-2-ol       Limit values (Belgium, 52021).         Limit values (Belgium, 52021).       TWA: 500 mg/m <sup>3</sup> 16 minutes.         2-ethylhexanoic acid, zirconium salt       TWA: 500 mg/m <sup>3</sup> 16 minutes.         2-ethylhexanoic acid, zirconium salt       Limit values (Belgium, 52021).         Xylene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Limit value 8 tours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 tours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 hours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 tours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 hours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 tours: 50 ppm 8 hours.       Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 tours: 50 ppm 8 hours. <td></td> <td></td>		
TWA: 20 ppin 8 hours.         Propan-2-ol         Propan-2-ol         Limit values (Belgium, 5/2021).         TWA: 200 ppin 8 hours.         STEL: 551 mg/m 15 minutes.         STEL: 400 ppin 15 minutes.         STEL: 400 ppin 15 minutes.         STEL: 400 ppin 15 minutes.         STEL: 100 mg/m 15 minutes.         STEL: 100 mg/m 16 scill.         Z-ethylhexanoic acid, zirconium salt         Limit values (Belgium, 5/2021).         TWA: 20 ppin 8 hours.         STEL: 100 mg/m 16 scill.         Xylene         Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Limit value 8 hours: 50 ppm 8 hours.         Limit value 9 hours: 50 ppm 8 hours.         Limit value 8 hours: 221 mg/m 8 hours.         Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 hours: 50 ppm 8 hours.         Limit value 8 hours: 60 ppm 8 hours.         Limit value 8 hours: 60 ppm 8 hours.         Limit value 8 hours: 60 ppm 8 hours. <tr< td=""><td>Ethylbenzene</td><td>0</td></tr<>	Ethylbenzene	0
STEL: 125 ppm 15 minutes.         STEL: 300 ppm 15 minutes.         2-ethylhexanoic acid, zirconium salt         2-ol         2-ethylhex		
Propan-2-olSTEL: S61 mg/m² 15 minutes.Propan-2-olLimit values (Beigum, 5/2021).TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. STEL: 400 ppm 15 minutes. STEL: 100 mg/m² 15 minutes. STEL: 100 mg/m² 16 minutes. STEL: 100 mg/m² 16 minutes. STEL: 10 mg/m². (as 27) 15 minutes.2-ethylhexanoic acid, zirconium saltLimit values (Beigum, 5/2021). [Zirconium and compounds] TWA: 5 mg/m² (as 27) 15 minutes. Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance Not 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 50 ppm 8 hours. Limit value 15 min: 50 ppm 16 hours.TolueneMinistry of Labour and Social Policy and the Ministry of Heatth - Ordinance Not 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 15 min: 50 ppm 8 hours. Limit value 15 min: 304 mg/m² 15 minutes. Limit value 15 min: 304 mg/m² 16 minutes. Limit value 15 min: 304 mg/m² 16 minutes. Limit value 15 min: 50 ppm 8 hours.EthylbenzeneMinistry of Labour and Social Policy and the Ministry of Heatth - Ordinance Not 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m² 16 minutes. Limit value 8 hours: 435 mg/m² 16 minutes. Limit value 8 hours. Limit value 8 hours. Lim		
Propan-2-ol       Limit values (Belgium, 5/2021).         TWA: 500 mg/m³ 8 hours.       TWA: 500 mg/m³ 8 hours.         2-ethylhexanoic acid, zirconium salt       Limit values (Belgium, 5/2021). [Zirconium and compounds]         TWA: 500 mg/m³ (as Zr) 8 hours.       STEL: 1000 mg/m³ (as Zr) 15 minutes.         Xylene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene]         Absorbed through skin.       Limit value 8 hours: 221 mg/m³ 8 hours.         Limit value 15 min: 422 mg/m³ 15 minutes.       Limit value 15 min: 422 mg/m³ 15 minutes.         Limit value 15 min: 422 mg/m³ 4 hours.       Limit value 15 min: 422 mg/m³ 4 hours.         Limit value 5 hours: 50 ppm 8 hours.       Limit value 6 hours: 50 ppm 8 hours.         Toluene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Ethylbenzene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Propan-2-ol       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Cobalt bis(2-ethylhexanoate)       Ministry of Cabour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Lobalt and inorganic compounds]         Limit value 8 hours: 435 mg/m³ 15 minutes.       Limit value 8 hours.		
2-ethylhexanoic acid, zirconium salt       TWA: 200 ppm 15 mours. STEL: 400 ppm 15 minutes. STEL: 400 ppm 15 minutes.         2-ethylhexanoic acid, zirconium salt       Limit values (Belgium, 5/2021). [Zirconium and compounds] TWA: 5 mg/m², (as 2r) 8 hours. STEL: 10 mg/m², (as 2r) 15 minutes.         Xylene       Winistry of Labour and Social Policy and the Ministry of Health - Ordinance Not 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 15 min: 424 mg/m² 16 minutes. Limit value 15 min: 50 ppm 6 hours.         Toluene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance Not 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 15 min: 50 ppm 6 hours.         Ethylbenzene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance Not 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 6 hours: 192 mg/m² 16 minutes. Limit value 8 hours: 192 mg/m² 16 minutes. Limit value 15 min: 545 mg/m² 15 minutes. Limit value 7 hours. No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m² 16 minutes.         Propan-2-ol       Winistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 15 min: 545 mg/m² 16 minutes. Limit value 15 min: 545 mg/m² 16 minutes.         Cobalt bis(2-ethylhexanoate)       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 225 mg/m² 16 minutes.         Xylene       Ministry of Caonomy, Labour and Entrepreneurship ELV/ STELV. (Aulue 8 hours.         Xylene       Ministry of Economy, Labour and Entrepreneurship ELV/ STELV. (Cro	Propan 2 ol	
2-ethylhexanoic acid, zirconium salt       STEL: 400 pm/m 16 minutes. STEL: 100 mg/m <sup>2</sup> (az 27) 8 hours. STEL: 100 mg/m <sup>2</sup> (az 7) 8 hours. STEL: 10 mg/m <sup>2</sup> (az 7) 8 hours. STEL: 10 mg/m <sup>2</sup> (az 7) 15 minutes.         Xylene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 8 hours: 221 mg/m <sup>2</sup> 8 hours. Limit value 9 hours: 221 mg/m <sup>2</sup> 15 minutes. Limit value 9 hours: 50 pp 8 hours. Limit value 9 hours: 30 pp 8 hours. Limit value 9 hours: 100 pp 15 minutes. Limit value 9 hours: 100 pp 16 minutes. Limit value 9 hours: 30 mg/m <sup>3</sup> 8 hours. Limit value 9 hours: 30 mg/m <sup>3</sup> 8 hours. Limit value 9 hours: 30 mg/m <sup>3</sup> 8 hours. Limit value 9 hours: 920 mg/m <sup>3</sup> 9 hours. Limit value 9 hours: 920 mg/m <sup>3</sup> 8 hours. STELV: 442 mg/m <sup>3</sup> 15 minutes. STELV: (Croatia, 1/2021). [Absorbed through skin. STELV: 420 mg/m 16 minutes. STELV: 21 mg/m <sup>3</sup> 8 hours. Biological Limit value 9 hours. 0.1 mg/m <sup>3</sup> (as cobalt) 8 hours. STELV: 100 pp m 16 minutes. STELV: 221 mg/m <sup>3</sup> 8 hours. ELV: 50 pm 8 hours. Biological Limit value 9 hours. ELV: 50 pm 8 hours. Biological Limit value 9 hours. ELV: 221 mg/m <sup>3</sup> 8 hours.	FTOpall-2-01	
STEL: 400 ppm 15 minutes.2-ethylhexanoic acid, zirconium salt2-ethylhexanoic acid, zirconium saltXyleneXyleneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.TolueneTolueneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 9 to min: 424 mg/m³ 15 minutes. Limit value 9 to min: 424 mg/m³ 15 minutes. Limit value 9 to min: 420 mg/m³ 8 hours.TolueneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.EthylbenzeneEthylbenzeneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.Propan-2-olPropan-2-olMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.Cobalt bis(2-ethylhexanoate)Winistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 8 hours: 980 mg/m³ 6 hours. STELV: 442 mg/m³ 15 minutes. STELV: 420 mg/m³ 6 hours. STELV: 420 mg/m³ 6 hours. STELV: 420 mg/m³ 16 minutes. ST		
2-ethylhexanoic acid, zirconium salt       Limit values (Beiglum, 5/2021), [Zirconium and compounds] TWA: 5 mg/m <sup>2</sup> , (as Zr) 8 hours. STEL: 10 mg/m <sup>2</sup> , (as Zr) 15 minutes.         Xylene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021), [Xylene] Absorbed through skin. Limit value 15 min: 442 mg/m <sup>2</sup> 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 384 mg/m <sup>2</sup> 15 minutes. Limit value 15 min: 384 mg/m <sup>2</sup> 15 minutes. Limit value 15 min: 384 mg/m <sup>3</sup> 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 192 mg/m <sup>3</sup> 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: 192 mg/m <sup>3</sup> 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 435 mg/m <sup>3</sup> 8 hours. Limit value 8 hours: 435 mg/m <sup>3</sup> 15 minutes. Limit value 8 hours: 200 mg/m <sup>3</sup> 6 hours. Limit value 8 hours: 1225 mg/m <sup>3</sup> 15 minutes.         Propan-2-ol       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 1225 mg/m <sup>3</sup> 15 minutes.         Cobalt bis(2-ethylhexanoate)       Ministry of Economy, Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 0.1 mg/m <sup>3</sup> , (as cobalt) 8 hours.         Xylene       Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [JAbsorbed through skin. STELV: 420 mg/m <sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. ELV: 50 ppm 8 hours. ELV: 50 ppm 8 hours.         Biological Limit Value (Croatia), Xylene: 1500 mg/m <sup>3</sup> , (in		
TWA: 5 mg/m², (as 2r) 8 hours. STEL: 10 mg/m², (as 2r) 15 minutes.         Xylene       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003, (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 15 min: 100 ppm 15 minutes. Limit value 50 ppm 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 384 mg/m² 15 minutes. Limit value 15 min: 384 mg/m² 16 minutes. Limit value 8 hours: 50 ppm 8 hours. Limit value 8 hours. 50 ppm 8 hours. Limit value 8 hours: 435 mg/m² 8 hours. Limit value 8 hours: 435 mg/m² 8 hours. Limit value 8 hours: 90 pg/m² 8 hours. Limit value 8 hours: 900 mg/m² 8 hours. Limit value 9 hours. 900 mg/m² 8 hours. Limit value 9 hours. 01 mg/m² (as cobalt) 8 hours. Limit value 9 hours. 01 mg/m² (as cobalt) 8 hours. Limit value 8 hours: 0.1 mg/m² (as cobalt) 8 hours. Limit value 8 hours. 0.1 mg/m² (as cobalt) 8 hours. STELV: 100 ppm 15 minutes.         Cobalt bis(2-ethylhexanoate)       Ministry of Labour and Social Policy and the Ministry of Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). [Cobalt and inorganic compounds] Limit value 8 hours. 0.1 mg/m² (as cobalt) 8 hours. STELV: 100 ppm 15 minutes. STELV: 100 ppm 15 minutes. STELV: 100 ppm 15 minutes. STELV: 100 ppm 15 minutes. STELV: 100 ppm 15 hours. Biological Limit Value (Croatia). Xylene: 1500 mg/m², (in blood (14.13 µmol/L) - at the end of the work shift)         Toluene       Ministry of Economy, Labour and Entrepreneurship EL		
XyleneSTEL: 10 mg/m³, (as Zr) 15 minutes.XyleneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 344 mg/m³ 15 minutes. Limit value 15 min: 340 mg/m³ 15 minutes. Limit value 15 min: 344 mg/m³ 15 minutes. Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 15 min: 394 mg/m³ 16 minutes. Limit value 15 min: 394 mg/m³ 16 minutes. Limit value 15 min: 394 mg/m³ 16 minutes. Limit value 15 min: 200 ppm 15 minutes. Limit value 15 min: 245 mg/m³ 15 minutes.Propan-2-olMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 435 mg/m³ 15 minutes. Limit value 15 min: 1225 mg/m³ 15 minutes. Limit value 15 min: 1225 mg/m³ 15 minutes. Limit value 15 min: 1225 mg/m³ 15 minutes. Limit value 8 hours: 0.1 mg/m³, (a cobalt) 8 hours.XyleneMinistry of Economy, Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Cobalt and inorganic compounds] Limit value 8 hours: 0.1 mg/m³, (a cobalt) 8 hours.XyleneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [ Absorbed through skin. STELV: 40 ppm 15 minutes. ELV: 50 ppm 8 hours. Biological Limit Value 8 hours. Biological Limit Value 8 hours. Biological Limit Value (Cro	2-ethylhexanoic acid, zirconium salt	
Xylene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin.         Toluene       Limit value 8 hours: 221 mg/m <sup>3</sup> 8 hours.         Toluene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Ethylbenzene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Ethylbenzene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Ethylbenzene       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Propan-2-ol       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Cobalt bis(2-ethylhexanoate)       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 6 hours: 435 mg/m <sup>3</sup> 8 hours. Limit value 6 hours: 40003. (Bulgaria, 6/2021). Limit value 6 hours: 500 mg/m <sup>3</sup> 16 minutes.         Cobalt bis(2-ethylhexanoate)       Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 6 hours: 0.1 mg/m <sup>3</sup> 16 sinutes.         Xylene       STELV: (Croatia, 1/2021). Limit value 6 hours: 0.1 mg/m <sup>3</sup> 16 minutes.         STELV: 422 mg/m <sup>3</sup> 15 minutes.       STELV: (Croatia, 1/2021). J Absorbed		
Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene] Absorbed through skin. Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 8 hours: 50 ppm 8 hours. Limit value 8 hours: 91 ppm 15 minutes. Limit value 8 hours: 91 ppm 16 hours.EthylbenzeneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 192 mg/m³ 8 hours. Limit value 8 hours: 192 mg/m³ 8 hours. Limit value 8 hours: 100 ppm 16 minutes. Limit value 8 hours: 100 ppm 16 minutes.Propan-2-olMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 8 hours: 920 mg/m³ 15 minutes.Cobalt bis(2-ethylhexanoate)Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 15 min: 1225 mg/m³ 15 minutes. Limit value 16 hours: 920 mg/m³ 8 hours. Limit value 9 thours. Limit	X dama	
Absorbed through skin.Limit value 15 min: 422 mg/m³ 15 minutes.Limit value 15 min: 422 mg/m³ 15 minutes.Limit value 15 min: 100 ppm 15 minutes.Limit value 45 min: 100 ppm 15 minutes.Limit value 5 min: 100 ppm 15 minutes.Limit value 15 min: 100 ppm 15 minutes.Limit value 15 min: 384 mg/m³ 15 minutes.Limit value 15 min: 100 ppm 15 minutes.Limit value 8 hours: 50 ppm 8 hours.Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.Propan-2-olPropan-2-olMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).Limit value 8 hours: 980 mg/m³ 8 hours.Limit value 8 hours: 980 mg/m³ 6 minutes.Cobalt bis(2-ethylhexanoate)Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).Limit value 8 hours: 980 mg/m³ 8 hours.Limit value 8 hours: 980 mg/m³ 8 hours.Limit value 8 hours: 980 mg/m³ 8 hours.Limit value 8 hours: 980 mg/m³ 15 minutes.Cobalt bis(2-ethylhexanoate)Ministry of Economy, Labour and Betrepreneurship ELV/ STELV (Croatia, 1/2021). [] Absorbed through skin.XyleneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [] Absorbed through skin.XyleneMinistry of Economy, Labour and Entr	Xylene	
TolueneLimit value 8 hors: 221 mg/m³ 15 hours. Limit value 15 min: 442 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 15 min: 300 ppm 18 minutes. Limit value 15 min: 300 ppm 18 minutes. Limit value 16 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 15 minutes. Limit value 8 hours: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.EthylbenzeneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 50 ppm 8 hours. Limit value 8 hours: 435 mg/m³ 4 hours.Propan-2-olMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m³ 15 minutes.Cobalt bis(2-ethylhexanoate)Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 6 hours: 930 mg/m³ 15 minutes.XyleneMinistry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 0.1 mg/m³ (as cobalt) 8 hours.XyleneSTELV: 442 mg/m³ 16 minutes. STELV: 442 mg/m³ 16 minutes. STELV: 442 mg/m³ 16 minutes. STELV: 221 mg/m³ 8 hours. ElV: 221 mg/m³ 8 hours. Biological Limit value 8 hours: 0.1 mg/m³. (as cobalt) 8 hours.TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV: 442 mg/m³ 16 hours. Biological Limit Value (Croatia). Xylene: 150000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift) Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the		
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Biological Limit Value (Croatia). Xylene: 1500 mg/m³, (in blood (14.13 µmol/L) - at the end of the work shift) Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift)TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.		
Xylene: 1500 mg/m³, (in blood (14.13 µmol/L) - at the end of the work shift) Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift)TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.		
work shift)Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift)TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.		
Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift)TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.		
TolueneMinistry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.		
Toluene       Ministry of Economy, Labour and Entrepreneurship ELV/         STELV (Croatia, 1/2021). Absorbed through skin.		
	Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/
I		STELV (Croatia, 1/2021). Absorbed through skin.
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#### SECTION 8: Exposure controls/personal protection STELV: 384 mg/m<sup>3</sup> 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. Biological Limit Value (Croatia). Toluene: 1000 mg/m<sup>3</sup>, (in blood (10.85 µmol/L) - at the end of the work shift) Toluene: 20 ppm, (utterly exhaled air (0.83 µmol/L) - during exposure) hypuric acid: 2500000 ppm, (creatinine in urine (1.58 mol/mol creatinine) - at the end of the work shift) o-cresol: 1000 ppm, (creatinine in urine (1.05 mmol/mol creatinine) - at the end of the work shift) Ministry of Economy, Labour and Entrepreneurship ELV/ Ethylbenzene STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m<sup>3</sup> 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m<sup>3</sup> 8 hours. ELV: 100 ppm 8 hours. Biological Limit Value (Croatia). Ethylbenzene: 1500 mg/m<sup>3</sup>, (in blood (14.1 µmol/L) - during exposure) almond acid: 1500000 ppm, (creatinine in urine (1.12 mol/mol creatinine) - at the end of the work shift and at the end of the work week) Ministry of Economy, Labour and Entrepreneurship ELV/ Propan-2-ol STELV (Croatia, 1/2021). STELV: 1250 mg/m<sup>3</sup> 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m<sup>3</sup> 8 hours. ELV: 400 ppm 8 hours. Biological Limit Value (Croatia). acetone: 50000 mg/m<sup>3</sup>, (in blood (0.86 µmol/L) - at the end of the work shift) acetone: 50000 mg/m<sup>3</sup>, (in urine (0.86 µmol/L) - at the end of the work shift) Cobalt bis(2-ethylhexanoate) Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [] Inhalation sensitiser. ELV: 0.1 mg/m<sup>3</sup>, (as Co) 8 hours. 2-ethylhexanoic acid, zirconium salt Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [] STELV: 10 mg/m<sup>3</sup>, (as Zr) 15 minutes. ELV: 5 mg/m<sup>3</sup>, (as Zr) 8 hours. **X**ylene Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. Toluene Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed Ethylbenzene through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. Date of issue/Date of revision :01/11/2023

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Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 5/2021). [] Absorbed through skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 400 mg/m <sup>3</sup> 15 minutes.
	STEL: 90.8 ppm 15 minutes.
Toluene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 5/2021). Absorbed through skin.
	TWA: 192 mg/m³ 8 hours. TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100.224 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 5/2021). Absorbed through skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	STEL: 113.5 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech
Flopali-2-0	Republic, 5/2021). Absorbed through skin.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m <sup>3</sup> 15 minutes.
	STEL: 400 ppm 15 minutes.
Cobalt bis(2-ethylhexanoate)	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 5/2021). [] Skin sensitiser.
	TWA: 0.05 mg/m³, (as Co) 8 hours. Form: aerosol, inhalable
	fraction.
	STEL: 0.1 mg/m³, (as Co) 15 minutes. Form: aerosol, inhalable fraction.
<b>X</b> ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes,
	all isomers] Absorbed through skin. TWA: 25 ppm 8 hours.
	TWA: 20 ppm o hours. TWA: 109 mg/m <sup>3</sup> 8 hours.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Toluene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m <sup>3</sup> 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
Ethylbenzene	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m <sup>3</sup> 8 hours.
	STEL: 434 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Propan-2-ol	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 200 ppm 8 hours.
	TWA: 490 mg/m <sup>3</sup> 8 hours.
	STEL: 980 mg/m <sup>3</sup> 15 minutes.
Cobalt bis(2-ethylhexanoate)	STEL: 400 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). [Inorganic
	compounds of cobalt] Carcinogen.
	TWA: 0.01 mg/m <sup>3</sup> , (calculated as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Working Environment Authority (Denmark, 6/2022).
	[Compounds of zirconium]
	TWA: 5 mg/m³, (calculated as Zr) 8 hours.
	STEL: 10 mg/m <sup>3</sup> , (calculated as Zr) 15 minutes.
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Viene	Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). [] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 450 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
Toluene	Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia,
	10/2019). Absorbed through skin. Skin sensitiser.
	TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
Propan-2-ol	Occupational exposure limits, Regulation No. 293 (Estonia,
	10/2019). []
	TWA: 350 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 600 mg/m <sup>3</sup> 15 minutes.
	STEL: 250 ppm 15 minutes.
Cobalt bis(2-ethylhexanoate)	Occupational exposure limits, Regulation No. 293 (Estonia,
	10/2019). [] Skin sensitiser.
	TWA: 0.05 mg/m <sup>3</sup> , (calculated as Co) 8 hours.
<b>X</b> ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupational
	exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 192 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
Euryidenzene	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
<b>X</b> ylene	Institute of Occupational Health, Ministry of Social Affairs
(yiono	(Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m <sup>3</sup> 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Toluene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
Ethydhanzana	STEL: 380 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 880 mg/m <sup>3</sup> 15 minutes.
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Propan-2-ol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 620 mg/m <sup>3</sup> 15 minutes.
Naphtha (petroleum), hydrotreated heavy	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2020).
	TWA: 500 mg/m <sup>3</sup> 8 hours.
Cobalt bis(2-ethylhexanoate)	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Cobalt and its inorganic compounds]
	TWA: 0,02 mg/m <sup>3</sup> , (calculated as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Zirconium and its compounds]
	TWA: 1 mg/m <sup>3</sup> , (calculated as Zr) 8 hours.
Kylene	Ministry of Labor (France, 5/2021). [] Absorbed through skir
	Notes: Binding regulatory limit values (article R. 4412-149 o
	the Labor Code)
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
oluene	Ministry of Labor (France, 5/2021). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 c
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 76.8 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
thylbenzene	Ministry of Labor (France, 5/2021). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 c
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m <sup>3</sup> 8 hours.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Propan-2-ol	Ministry of Labor (France, 5/2021). Notes: Permissible limit
•	values (circulars)
	STEL: 400 ppm 15 minutes.
	STEL: 980 mg/m <sup>3</sup> 15 minutes.
(ylene	TRGS 900 OEL (Germany, 7/2021). [] Absorbed through ski
Cylerie	TWA: 220 mg/m <sup>3</sup> 8 hours.
	PEAK: 440 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). [Xylene] Absorbe
	through skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	PEAK: 440 mg/m³, 4 times per shift, 15 minutes.
oluene	TRGS 900 OEL (Germany, 7/2021). Absorbed through skin.
	TWA: 190 mg/m <sup>3</sup> 8 hours.
	PEAK: 380 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). Absorbed throug
	skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 190 mg/m <sup>3</sup> 8 hours.
	PEAK: 380 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Ethylbenzene	TRGS 900 OEL (Germany, 7/2021). Absorbed through skin.
	TWA: 88 mg/m <sup>3</sup> 8 hours.

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	PEAK: 176 mg/m <sup>3</sup> 15 minutes.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). Absorbed through
	skin.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	PEAK: 176 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 88 mg/m <sup>3</sup> 8 hours.
Propon Q ol	TWA: 20 ppm 8 hours.
Propan-2-ol	TRGS 900 OEL (Germany, 7/2021).
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	PEAK: 1000 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021).
	TWA: 200 ppm 8 hours. PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	PEAK: 1000 mg/m³, 4 times per shift, 15 minutes.
Japhtha (petroleum), hydrotreated heavy	DFG MAC-values list (Germany, 10/2021).
apinina (perioleun), nyuroreateu neavy	
	TWA: 50 ppm 8 hours. TWA: 300 mg/m³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
kylene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [] Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m <sup>3</sup> 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 <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
- 4 11	STEL: 384 mg/m <sup>3</sup> 15 minutes.
thylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m <sup>3</sup> 8 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m <sup>3</sup> 15 minutes.
Cobalt bis(2-ethylhexanoate)	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). []
	TWA: 0.1 mg/m <sup>3</sup> , (as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). []
	TWA: 5 mg/m <sup>3</sup> 8 hours.
	STEL: 10 mg/m <sup>3</sup> 15 minutes.
Kylene (Viene)	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). [] Absorbed
	through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	PEAK: 442 mg/m <sup>3</sup> 15 minutes.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). Absorbed throug
	skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 190 mg/m <sup>3</sup> 8 hours.
	PEAK: 380 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). Absorbed throug

	skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	PEAK: 884 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). Absorbed throug
	skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	PEAK: 1000 mg/m <sup>3</sup> 15 minutes.
Cobalt bis(2-ethylhexanoate)	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). [] Skin sensitiser
	Inhalation sensitiser.
	TWA: 0.02 mg/m³, (as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). []
,	TWA: 5 mg/m³, (as Zr) 8 hours.
	PEAK: 20 mg/m <sup>3</sup> , (as Zr) 15 minutes.
(ylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
yiene	Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 109 mg/m <sup>3</sup> 8 hours.
aluana	TWA: 25 ppm 8 hours.
oluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
thylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Cobalt bis(2-ethylhexanoate)	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Skin sensitiser.
	TWA: 0.02 mg/m <sup>3</sup> , (as Co) 8 hours. Form: Dust and fumes
-ethylhexanoic acid, zirconium salt	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	TWA: 5 mg/m³, (as Zr) 8 hours.
ylene	NAOSH (Ireland, 5/2021). [xylene] Absorbed through skin.
	Notes: EU derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.
oluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 192 mg/m <sup>3</sup> 8 hours.
	OELV-0111 192 fight o hours. OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 384 mg/m <sup>3</sup> 15 minutes.
thylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.
	OELV-011. 442 mg/m o hours. OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 200 ppm 13 minutes. OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 200 ppm 8 hours.
Cohalt his (2 ethylboxonoata)	OELV-15min: 400 ppm 15 minutes.
Cobalt bis(2-ethylhexanoate)	NAOSH (Ireland, 5/2021). [Cobalt and cobalt compounds] Skin
	sensitiser. Notes: Advisory Occupational Exposure Limit
	OELV-8hr: 0.02 mg/m <sup>3</sup> , (as Co) 8 hours.
ethylhexanoic acid, zirconium salt	NAOSH (Ireland, 5/2021). [zirconium compounds] Notes:
	Advisory Occupational Exposure Limit Values (OELVs)

	controls/personal protection
	OELV-8hr: 5 mg/m³, (as Zr) 8 hours. OELV-15min: 10 mg/m³, (as Zr) 15 minutes.
(Mana	,
Kylene	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: 221 mg/m <sup>3</sup> 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m <sup>3</sup> 15 minutes.
oluene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 mg/m <sup>3</sup> 8 hours.
thylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m <sup>3</sup> 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m <sup>3</sup> 15 minutes.
	C C
ylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
oluene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	Absorbed through skin.
	TWA: 50 mg/m³ 8 hours.
	STEL: 150 mg/m <sup>3</sup> 15 minutes.
	TWA: 14 ppm 8 hours.
	STEL: 40 ppm 15 minutes.
Ethylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	TWA: 350 mg/m <sup>3</sup> 8 hours.
	STEL: 600 mg/m <sup>3</sup> 15 minutes.
ylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
5	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
oluene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
thylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
Propan-2-ol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 350 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 600 mg/m <sup>3</sup> 15 minutes.

#### SECTION 8: Exposure controls/personal protection STEL: 250 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Cobalt bis(2-ethylhexanoate) [Cobalt and its inorganic compounds] Skin sensitiser. Inhalation sensitiser. TWA: 0.05 mg/m<sup>3</sup>, (as Co) 8 hours. **X**ylene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m<sup>3</sup> 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I Ethylbenzene (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. **X**ylene EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. Toluene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. **X**ylene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL. 8-h TWA: 210 mg/m<sup>3</sup> 8 hours. STEL,15-min: 442 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours. Toluene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m<sup>3</sup> 8 hours. STEL,15-min: 384 mg/m<sup>3</sup> 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 Ethylbenzene (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m<sup>3</sup> 8 hours. STEL,15-min: 430 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours. Date of issue/Date of revision :01/11/2023 ·04/11/2022 Version :8 15/36 Date of previous issue

SECTION 8: Exposure controls/p	ersonal protection
Xylene	FOR-2011-12-06-1358 (Norway, 6/2021). [] Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 108 mg/m <sup>3</sup> 8 hours.
Toluene	FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
Ethylbenzene	TWA: 94 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through
Ethylbenzene	skin. Carcinogen. Notes: indicative limit value
	TWA: 5 ppm 8 hours.
	TWA: 20 mg/m <sup>3</sup> 8 hours.
Propan-2-ol	FOR-2011-12-06-1358 (Norway, 6/2021).
	TWA: 100 ppm 8 hours.
	TWA: 245 mg/m <sup>3</sup> 8 hours.
Cobalt bis(2-ethylhexanoate)	FOR-2011-12-06-1358 (Norway, 6/2021). [] Skin sensitiser.
	Reproductive toxin.
	TWA: 0.02 mg/m³, (calculated as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	FOR-2011-12-06-1358 (Norway, 6/2021). []
	TWA: 5 mg/m <sup>3</sup> , (calculated as Zr) 8 hours.
<b>X</b> ylene	Regulation of the Minister of Family, Labor and Social Policy
<i>y</i> spining	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed
	through skin.
	TWA: 100 mg/m <sup>3</sup> 8 hours.
	STEL: 200 mg/m <sup>3</sup> 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/m <sup>3</sup> 15 minutes.
Ethylbenzene	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021). Absorbed through skin. TWA: 200 mg/m³ 8 hours.
	STEL: 400 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	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: 900 mg/m <sup>3</sup> 8 hours.
	STEL: 1200 mg/m <sup>3</sup> 15 minutes.
Naphtha (petroleum), hydrotreated heavy	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). [benzin to varnish]
	TWA: 300 mg/m <sup>3</sup> 8 hours.
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
Cobalt bis(2-ethylhexanoate)	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). [cobalt and its inorganic compounds]
2-ethylbevanoic acid zirconium calt	TWA: 0.02 mg/m <sup>3</sup> , (calculated as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible
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	work environment (Journal of Laws 2021, item 325) (Poland
	2/2021). [zirconium and compounds]
	TWA: 5 mg/m <sup>3</sup> , (calculated as Zr) 8 hours.
	STEL: 10 mg/m <sup>3</sup> , (calculated as Zr) 15 minutes.
Kylene	Portuguese Institute of Quality (Portugal, 11/2014). []
	TWA: 100 ppm 8 hours.
	STEL: 150 ppm 15 minutes.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014). Absorbe
	through skin.
	TWA: 20 ppm 8 hours.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 20 ppm 8 hours.
Propan-2-ol	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes.
Cobalt bis(2-ethylhexanoate)	Portuguese Institute of Quality (Portugal, 11/2014). []
	TWA: 0.02 mg/m <sup>3</sup> , (expressed as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Portuguese Institute of Quality (Portugal, 11/2014). []
	TWA: 5 mg/m <sup>3</sup> , (expressed as Zr) 8 hours.
_	STEL: 10 mg/m <sup>3</sup> , (expressed as Zr) 15 minutes.
Kylene Contraction Contraction Contraction	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [Xylene] Absorbed through sk
	VLA: 221 mg/m <sup>3</sup> 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 442 mg/m <sup>3</sup> 15 minutes.
	Short term: 100 ppm 15 minutes.
Toluene	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 192 mg/m <sup>3</sup> 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 384 mg/m <sup>3</sup> 15 minutes.
	Short term: 100 ppm 15 minutes.
Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 442 mg/m <sup>3</sup> 8 hours.
	VLA: 100 ppm 8 hours.
	Short term: 884 mg/m <sup>3</sup> 15 minutes.
	Short term: 200 ppm 15 minutes.
Propan-2-ol	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 200 mg/m <sup>3</sup> 8 hours.
	VLA: 81 ppm 8 hours.
	Short term: 500 mg/m <sup>3</sup> 15 minutes.
	Short term: 203 ppm 15 minutes.
2-ethylhexanoic acid, zirconium salt	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [Zirconium and compounds]
	VLA: 5 mg/m <sup>3</sup> , (expressed as Zr) 8 hours.
	Short term: 10 mg/m <sup>3</sup> , (expressed as Zr) 15 minutes.
(ylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020). []
,	Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m <sup>3</sup> , (xylene, mixed isomers) 15 minutes.
	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.
Foluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.

ECTION 8: Exposure controls	spersonal protection
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
Propan-2-ol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m <sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.
Cobalt bis(2-ethylhexanoate)	Government regulation SR c. 355/2006 (Slovakia, 9/2020). []
	Skin sensitiser.
	TWA: 0.05 mg/m <sup>3</sup> , (Cobalt and its compounds, as Co) 8 hours.
2-ethylhexanoic acid, zirconium salt	Government regulation SR c. 355/2006 (Slovakia, 9/2020). []
	TWA: 1 mg/m <sup>3</sup> , (Zirconium and its compounds, as Zr) 8 hours.
Xylene	Regulation on protection of workers from the risks related to
Aylerie	exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Foluene	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 384 mg/m <sup>3</sup> , 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 <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 884 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	KTV: 200 ppm, 4 times per shift, 15 minutes.
Propan-2-ol	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 500 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
	KTV: 1000 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	KTV: 400 ppm, 4 times per shift, 15 minutes.
2-ethylhexanoic acid, zirconium salt	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
	KTV: 1 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: Inhalable
	fraction
Xylene	National institute of occupational safety and health (Spain,
xylene	4/2021). [] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
Toluene	National institute of occupational safety and health (Spain,
	4/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	National institute of occupational safety and health (Spain,
-	4/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	National institute of occupational safety and health (Spain,

TWA: 200 ppm 8 hours.         TWA: 500 ppm 15 minutes.         STEL: 400 ppm 15 minutes.         STEL: 400 ppm 15 minutes.         Stel: 100 ppm 17 is minutes.         *ethylhexanoic acid, zirconium salt         *ethylhexanoic acid, zirconium salt         Viene         Viene </th <th>ECTION 8: Exposure controls/</th> <th></th>	ECTION 8: Exposure controls/	
TWA: 500 mg/m <sup>2</sup> hours.         STEL: 400 mg/m <sup>2</sup> 15 minutes.         STEL: 400 mg/m <sup>2</sup> 16 minutes.         -ethylhexanoic acid, zirconium salt         -ethylhexanoic acid, zirconium salt         Vational institute of occupational safety and health (Spain, 4/2021). [] Skin sensitiser. Inhalation sensitiser.         VWX: 0.02 mg/m <sup>2</sup> , (as 2.0) 8 hours.         STEL: 100 mg/m <sup>2</sup> , (as 2.7) 15 minutes.         Verse       Work environment authority Regulation 2018:1 (Sweden, 9/2021), [pylong 1 Absorbed through skin.         VWX: 02 mg/m <sup>2</sup> , (as 2.7) 15 minutes.         Foluene       Work environment authority Regulation 2018:1 (Sweden, 9/2021), [pylong 16 minutes.         VWX: 02 mg/m <sup>2</sup> 16 minutes.         VWX: 02 mg/m <sup>2</sup> 16 minutes.         STEL: 100 mg/m <sup>3</sup> 16 minutes.         VWX: 02 mg/m <sup>2</sup> 16 minutes.         VWX: 02 mg/m <sup>2</sup> 16 minutes.         STEL: 100 mg/m 16 hours.         TWX: 12 mg/m <sup>2</sup> 16 minutes.         STEL: 100 mg/m 16 hours.         TWX: 20 mg/m <sup>2</sup> 16 hours.         TWX: 20 mg/m <sup>2</sup> 16 hours.         Stell: 100 mg/m <sup>2</sup> 16 hours.         Stell: 100 mg/m <sup>2</sup> 16 hours.         Stell: 100 mg/m <sup>2</sup> 16 hours.		<b>4/2021).</b> TW/A: 200 ppm 8 hours
STEL: 400 pm 15 minutes.         Schell bis(2-ethylhexanole)         Vehylhexanolc acid, zirconium salt         Vehylhexanole         Vehylhexanole         Vehylhexanole         Vehylhexanole         Vehylhexanole         Vehylhexanole         Vehylhexanole		
STEL: 1000 mg/m <sup>3</sup> 15 minutes.         Stobalt bis(2-ethylhexanoate)         Attional institute of occupational safety and health (Spain, 4/2021). [] Skin sensitiser. Inhalation sensitiser.         -ethylhexanoic acid, zirconium sait         Wational institute of occupational safety and health (Spain, 4/2021). [] TWA: 5:0.02 m/m, (as 2:0.16 mounts.         Steine         Viene         Steine         Viene         Viene         Viene         Steine         Viene         Vie		
bits (2-ethylhexanoate)       National institute of occupational safety and health (Spain, 4/2021). []        ethylhexanoic acid, zirconium salt       National institute of occupational safety and health (Spain, 4/2021). []         TWA: 0.02 mg/m², (as Co) 8 hours.       TWA: 0.02 mg/m², (as Co) 8 hours.         Sylene       Work environment authority Regulation 2018:1 (Sweden, 9/2021), Lycylene] Absorbed through skin.         TWA: 50 ppm 8 hours.       STEL: 100 ppm 15 minutes.         solution       STEL: 100 ppm 15 minutes.         struct       STEL: 100 ppm 15 minutes.         struct       STEL: 100 ppm 16 minutes.         struct       STEL: 100 ppm 15 minutes.         struct       STEL: 100 ppm 16 minutes.         struct		
4/2021). [] Skin sensitiser. Inhalation sensitiser.        ethylhexanoic acid, zirconium sait         4/2021). []         Wak: Singlim <sup>2</sup> , (as 20) 8 hours.         Sylene         Sylene         Sylene         Work environment authority Regulation 2018:1 (Sweden, 9/2021). (Sylene) Absorbed through skin.         TWA: Singlim <sup>2</sup> , (as 27) 16 hours.         STEL: 100 ppm 8 hours.         TWA: 221 mg/m <sup>2</sup> 8 to 10 ppm 15 minutes.         STEL: 100 ppm 16 hours.         TWA: 221 mg/m <sup>2</sup> 8 to 10 ppm 15 minutes.         STEL: 100 ppm 16 hours.         TWA: 221 mg/m <sup>2</sup> 8 to 10 ppm 15 minutes.         STEL: 304 ppm 8 hours.         STEL: 304 ppm 8 hours.         STEL: 304 ppm 15 minutes.         STEL: 304 ppm 16 minutes.         STEL: 304 ppm 16 minutes.         STEL: 300 p	Cobalt bis(2-ethylhexanoate)	
TWA: 0.02 mg/m², (as Co) 8 hours.       National institute of occupational safety and health (Spain, 4/2021). []       TWA: 0.02 mg/m², (as Z) 8 hours.       Steine       Work environment authority Regulation 2018:1 (Sweden, 9/2021). (Sylenol Absorbed through skin.       TWA: 50 ppm 8 hours.       TWA: 50 ppm 8 hours.       STEL: 100 ppm 15 minutes.       STEL: 42 mg/m² 16 minutes.       STEL: 100 ppm 15 minutes.       STEL: 20 mg/m² 8 hours.       TWA: 50 ppm 8 hours.       TWA: 20 mg/m² 8 hours.       TWA: 20 mg/m² 8 hours.       TWA: 20 mg/m² 8 hours.       STEL: 80 mg/m² 15 minutes.       STEL: 80 mg/m² 16 minutes. <td></td> <td></td>		
ethythexanoic acid, zirconium salt       National institute of occupational safety and health (Spain, 4/2021). []         TWA: 5 mg/m², (as Zr) 8 hours.       STEL: 10 mg/m², (as Zr) 8 hours.         Sylene       Work environment authority Regulation 2018:1 (Sweden, 9/2021). (sylene) Absorbed through skin.         TWA: 50 ppm 8 hours.       STEL: 100 ppm 15 minutes.         Sylene       Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Ototoxicant.         TWA: 20 ppm 8 hours.       STEL: 42 mg/m² 8 hours.         STEL: 30 ppm 8 hours.       STEL: 30 ppm 8 hours.         STEL: 30 ppm 8 hours.       STEL: 30 ppm 8 hours.         TWA: 50 ppm 8 hours.       STEL: 30 mg/m² 8 hours.         STEL: 30 ppm 8 hours.       STEL: 30 mg/m² 8 hours.         STEL: 30 ppm 8 hours.       STEL: 30 mg/m² 8 hours.         TWA: 50 ppm 8 hours.       STEL: 200 ppm 15 minutes.         Yropan-2-ol       Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.         Work environment authority Regulation 2018:1 (Sweden, 9/2021).       Yours environment authority Regulation 2018:1 (Sweden, 9/2021).         Yropan-2-ol       Work environment authority Regulation 2018:1 (Sweden, 9/2021).         YuX: 50 ppm 8 hours.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.       STEL: 200 ppm 15 minutes.         STEL: 200 ppm 15 minutes.		
4/2021). []       TWA: 5 mg/m², (as Zr) 8 hours. STEL: 10 mg/m², (as Zr) 15 minutes.         Viene       Work environment authority Regulation 2018:1 (Sweden, 9/2021), Lyclenol Absorbed through skin. TWA: 50 ppm 8 hours. 	2-ethylhexanoic acid, zirconium salt	
Weite       TWA: 5 mg/m², (as Zr) 8 hours.         STEL: 10 mg/m², (as Zr) 15 minutes.         Work environment authority Regulation 2018:1 (Sweden, 9/2021), (xylene] Absorbed through skin.         TWA: 221 mg/m² 8 hours.         TWA: 221 mg/m² 8 hours.         STEL: 100 ppm 15 minutes.         STEL: 100 ppm 15 minutes.         STEL: 30 ppm 8 hours.         TWA: 122 mg/m² 8 hours.         TWA: 122 mg/m² 8 hours.         TWA: 122 mg/m² 8 hours.         STEL: 30 ppm 15 minutes.         STEL: 384 mg/m² 15 minutes.         STEL: 324 mg/m² 15 minutes.         STEL: 324 mg/m² 15 minutes.         STEL: 384 mg/m² 16 minutes.         STEL: 200 mg/m² 8 hours.		
STEL: 10 mg/m², (as 2r) 15 minutes.VeneWork environment authority Regulation 2018:1 (Sweden, 9/2021), (xylene] Absorbed through skin. TWA: 50 ppm 15 minutes. STEL: 100 ppm 15 minutes. STEL: 42 mg/m² 15 minutes. STEL: 42 mg/m² 15 minutes. STEL: 100 ppm 15 minutes. STEL: 324 mg/m² 15 minutes. STEL: 304 mg/m² 15 minutes. STEL: 200 ppm 15 minutes. STEL: 200 mg/m² 16 minutes. STE		/ <b>H</b>
9/2021). [xylene] Absorbed through skin.         TWA: 521 mg/m³ 8 hours.         TWA: 221 mg/m³ 8 hours.         STEL: 442 mg/m³ 15 minutes.         STEL: 442 mg/m³ 15 minutes.         STEL: 442 mg/m³ 15 minutes.         STEL: 100 ppm 16 minutes.         STEL: 100 ppm 16 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 300 ppm 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200		
9/2021). [xylene] Absorbed through skin.         TWA: 521 mg/m³ 8 hours.         TWA: 221 mg/m³ 8 hours.         STEL: 442 mg/m³ 15 minutes.         STEL: 442 mg/m³ 15 minutes.         STEL: 442 mg/m³ 15 minutes.         STEL: 100 ppm 16 minutes.         STEL: 100 ppm 16 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 344 mg/m³ 15 minutes.         STEL: 300 ppm 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200	Viene	Work environment authority Regulation 2018:1 (Sweden.
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	Naphtha (petroleum), hydrotreated heavy	STEL: 400 ppm 15 minutes. STEL: 1000 mg/m <sup>3</sup> 15 minutes. <b>SUVA (Switzerland, 1/2021).</b>
	Japhtha (petroleum), hydrotreated heavy	STEL: 400 ppm 15 minutes. STEL: 1000 mg/m <sup>3</sup> 15 minutes. <b>SUVA (Switzerland, 1/2021).</b> STEL: 600 mg/m <sup>3</sup> 15 minutes.
	Japhtha (petroleum), hydrotreated heavy	STEL: 400 ppm 15 minutes. STEL: 1000 mg/m <sup>3</sup> 15 minutes. <b>SUVA (Switzerland, 1/2021).</b> STEL: 600 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.

#### SECTION 8: Exposure controls/personal protection TWA: 300 mg/m<sup>3</sup> 8 hours. Cobalt bis(2-ethylhexanoate) SUVA (Switzerland, 1/2021). [] Absorbed through skin. Skin sensitiser. TWA: 0.05 mg/m<sup>3</sup>, (calculated as Co) 8 hours. Form: inhalable dust and aerosol 2-ethylhexanoic acid, zirconium salt SUVA (Switzerland, 1/2021). [] TWA: 5 mg/m<sup>3</sup>, (calculated as Zr) 8 hours. Form: Inhalable fraction STEL: 10 mg/m<sup>3</sup>, (calculated as Zr) 15 minutes. Form: Inhalable fraction **X**ylene EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. Toluene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m<sup>3</sup> 15 minutes. TWA: 191 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Ethylbenzene through skin. STEL: 552 mg/m<sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m<sup>3</sup> 8 hours. Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m<sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 ma/m<sup>3</sup> 8 hours. TWA: 400 ppm 8 hours. **Butanone** EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 899 mg/m<sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and Cobalt bis(2-ethylhexanoate) cobalt compounds] Inhalation sensitiser. TWA: 0.1 mg/m<sup>3</sup>, (as Co) 8 hours. 2-ethylhexanoic acid, zirconium salt EH40/2005 WELs (United Kingdom (UK), 1/2020). [zirconium] compounds] STEL: 10 mg/m<sup>3</sup>, (as Zr) 15 minutes. TWA: 5 mg/m<sup>3</sup>, (as Zr) 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 1-Methoxy 2-propanol through skin. STEL: 560 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 ma/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. Dipropyleneglycolmethylether EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed throuah skin. TWA: 308 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

**Biological exposure indices** 

Product/ingredient name	Exposure indices
No exposure indices known.	
Vylene	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.
Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/I, toluene [in blood]. Sampling time: the morning after the working day.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5,2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
Cobalt bis(2-ethylhexanoate)	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Cobalt and its inorganic compounds] BEI: 130 nmol/I, cobalt [in urine]. Sampling time: at the end of each work shift work step or a week or exposure period.
No exposure indices known.	
Voluene	Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: en of the shift.
No exposure indices known.	

<b>X</b> ylene	HG 1218/2006, Annex 2, with subsequent modifications and
	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
Toluene	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.
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.
Propan-2-ol	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.
Cobalt bis(2-ethylhexanoate)	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Cobalt compounds] OBLV: 1 μg/l, cobalt [in blood]. Sampling time: end of the week. OBLV: 15 μg/l, cobalt [in urine]. Sampling time: end of the week.
No exposure indices known.	

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

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
<b>X</b> ylene	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
•		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation	Ū	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation	-	population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
		Inhalation	_		
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
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		Chart tarma	440 maar/ma3	\A/a #ka #a	Customia	
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic	
Toluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General	Systemic	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	population General	Local	
	DNEL	Inhalation	$56.5  mg/m^3$	population General	Systemic	
	DINEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	population	Systemic	
	DNEL	Long term	192 mg/m³	Workers	Local	
	DNEL	Inhalation Long term	192 mg/m³	Workers	Systemic	
	DNEL	Inhalation Long term Dermal	226 mg/kg	General	Systemic	
	DNEL	Short term	bw/day 226 mg/m³	population General	Local	
		Inhalation	Ū	population	Loodi	
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic	
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic	
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic	
		Inhalation	-	population		
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local	
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local	
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic	
Propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	89 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic	
	DNEL	Long term	500 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Inhalation Long term Dermal	888 mg/kg bw/day	Workers	Systemic	
Naphtha (petroleum), hydrotreated	DNEL	Long term Inhalation	0.41 mg/m <sup>3</sup>	General population	Systemic	
heavy	DNEL	Long term	1.9 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Inhalation Long term	178.57 mg/	General	Local	
		Inhalation	m <sup>3</sup>	population		
	DNEL	Long term Oral	300 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	300 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	640 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term	837.5 mg/	Workers	Local	
	DNEL	Inhalation Short term	m³ 1066.67	Workers	Local	
		Inhalation	mg/m <sup>3</sup>			
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	DNEL	Short term Inhalation	1152 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/ m <sup>3</sup>	Workers	Systemic
Cobalt bis(2-ethylhexanoate)	DNEL	Long term Inhalation	37 µg/m³	General population	Local
	DNEL	Long term Oral	175 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	235.1 µg/ m³	Workers	Local
2-ethylhexanoic acid, zirconium salt	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	6.49 mg/ kg bw/day	Workers	Systemic

### **PNECs**

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	
Individual protection measur	<u>)S</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
	Recommendations : Wear suitable gloves tested to EN374.	
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm	
	1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.	
	> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves	
	Wash hands before breaks and immediately after handling the product.	

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	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

: Liquid.
: Various
: Slight
: Not available.
: Not available.
:

Ingredient name		°C	°F	Method	
Propan-2-ol		83	181.4		
Toluene		110.6	231.1		
	. Natar	la la la	ł		

Flammability	: Not available.
Lower and upper explosion	: 🔽 wer: 0.8%
limit	Upper: 12%
Flash point	: 🛙 🖉 losed cup: 4°C (39.2°F)

2

### Auto-ignition temperature

Ingredient name		°C	°F	Method			
Maphtha (petroleum), hydrotreated heav	у	280 to 470	536 to 878				
Xylene		432	809.6				
Decomposition temperature	: Not ava	ilable.		•			
рН	: Not app	licable.					
Viscosity	: 🕅 Kinema	tic (40°C): >2	0.5 mm²/s				
Solubility(ies)	:						
Not available.							
Solubility in water	: Not ava	ilable.					
Partition coefficient: n-octanol/ water	: Not app	licable.					
Vapour pressure	:						
ate of issue/Date of revision	: 01/11/2023	Date of previo	ous issue : 04/	11/2022	Version	:8	25/36
EKNOLAC EFFECT 164 - All varia	ants				Label No :	<mark>5</mark> 2223	;

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
₽ropan-2-ol	33.00268	4.4						
Toluene	23.17	3.1						
elative density	: Not	available.						
ensity	: 1 g/	′cm³						
apour density	: Not	available.						
xplosive properties	: Not	available.						
xidising properties	: Not	available.						
article characteristics								
Median particle size	• Not	applicable.						

SECTION 10: Stabilit	y and reactivity							
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.							
10.2 Chemical stability	: The product is stable.							
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.							
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.							
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials							
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.							

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

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>X</b> ylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
·	LD50 Oral	Rat	5000 mg/kg	-
Naphtha (petroleum),	LC50 Inhalation Vapour	Rat	8500 mg/m <sup>3</sup>	4 hours
hydrotreated heavy			J J	
	LD50 Oral	Rat	>6 g/kg	-
Cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-

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

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Route	ATE value
	3936.88 mg/kg 32.28 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL 100 %	-
	Skin - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	24 hours 500	-
		Rabbit	-	mg	-
Toluene	Eyes - Mild irritant	Rabbit	_	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Olain Milel innite at	Dahhit		uL	
	Skin - Mild irritant	Rabbit Babbit	-	435 mg 24 hours 20	-
	Skin - Moderate irritant	Rabbit	-	mg	-
	Skin - Moderate irritant	Rabbit	_	500 mg	_
Ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Causes skin irritation.				
<u>Sensitisation</u>					
Conclusion/Summary	: May cause an allergic skin	reaction.			
Mutagenicity					
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
Carcinogenicity					
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
<u>Teratogenicity</u>					

### **Conclusion/Summary** : Suspected of damaging the unborn child.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3	-	Respiratory tract irritation
Toluene Propan-2-ol	Category 3 Category 3	-	Narcotic effects Narcotic effects

### Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1

Information on likely routes	:	Not available.
of exposure		
Potential acute health effects		
Eye contact	4	Causes serious eye irritation.
Inhalation	1	May cause respiratory irritation.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	;	No known significant effects or critical hazards.
Symptoms related to the physical	sic	al, chemical and toxicological characteristics
Eye contact		Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing 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 effect	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</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	1	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
Voluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> pseudolimnaeus - 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
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 μg/l Marine water Acute LC50 4200000 μg/l Fresh water	Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 96 hours

**Conclusion/Summary** : 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

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>X</b> ylene	3.12	8.1 to 25.9	Low
Toluene	2.73	90	Low
Ethylbenzene	3.6	-	Low
Propan-2-ol	0.05	-	Low
Naphtha (petroleum),	-	10 to 2500	High
hydrotreated heavy			
Cobalt bis(2-ethylhexanoate)	-	15600	High
2-ethylhexanoic acid,	-	2.96	Low
zirconium salt			

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

### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

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# **SECTION 13: Disposal considerations**

13.1 Waste treatment meth	lods
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.
	Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials should be soaked in water and placed in a closed metal container before disposal.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	No.	No.	No.

 

 Additional information

 ADR/RID
 : Special provisions 640 (C) Tunnel code (D/E)

 ADN
 : Special provisions 640 (C)

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

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

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

### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designation [Usage]	
FEKNOLAC EFFECT 164		≥90 ≥10 - ≤15	3 48	
Labelling	:			
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Listed			
Explosive precursors	Explosive precursors : Not applicable.			
Ozone depleting substance	<u>es (1005/2009/E</u>	<u>U)</u>		
Not listed.				
Prior Informed Consent (P Not listed.	PIC) (649/2012/EL	<u>(r</u>		
Persistent Organic Polluta Not listed.	<u>ants</u>			
Seveso Directive				
This product is controlled ur	nder the Seveso [	Directive.		
Danger criteria				
Category				
P5c				
National regulations				
Austria				
VbF class	: A I Very danger	ous flammat	ble liquid.	
Limitation of the use of organic solvents	: Permitted.			

<u>Czech Republic</u>	
Storage code	: 1
<u>Denmark</u>	
Danish fire class	: I-1

### Executive Order No. 1795/2015

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Ingredient name	Annex I Section A	Annex I Section B
Ethylbenzene	Listed	-
Propan-2-ol	Listed	-
Cobalt bis(2-ethylhexanoate)	Listed	-



: 4-3

2

Protection based on MAL

**MAL-code** 

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

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

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

MAL-code: 4-3

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

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

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone.

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

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

- Air-supplied full mask and coveralls must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

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

- Air-supplied full mask must be worn.

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

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

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

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

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

\*See Regulations.

Restrictions on use

 Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

	-	
List of undesirable substances	: Listed	
Carcinogenic waste	: Waste containers must be labeled: Contains a s by Danish working environment legislation on ca	5
<u>Finland</u>		
<u>France</u>		
Social Security Code,	: Xylene	RG 4bis, RG 84
Articles L 461-1 to L 461-7	Toluene	RG 4bis, RG 84
	Ethylbenzene	RG 84
	Propan-2-ol	RG 84
	Naphtha (petroleum), hydrotreated heavy	RG 84
	Cobalt bis(2-ethylhexanoate)	RG 70
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activit medical surveillance: not applicable	ies which require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	: 3	

#### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

### Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water	: 2
Technical instruction on	: TA-Luft Number 5.2.5: 34.9%
air quality control	TA-Luft Class I - Number 5.2.5: 16.9%
	TA-Luft Class I - Number 5.2.7.1.1: 0.1%

#### **Italy**

D.Lgs. 152/06

# : Not determined.

#### **Netherlands**

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
<b>x</b> ylene	-	-	-	Development 2	-
tolueen	-	-	-	Development 2	-
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
2-ethylhexanoic acid and salts excluding substances specifically listed in Annex VI of CLP	-	-	-	Development 1B	-
2-ethylhexanoic acid and salts excluding substances specifically listed in Annex VI of CLP	-	-	-	Development 1B	-

(ABM)

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

#### **Norway**

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SECTION 15. Regulatory information
<u>Sweden</u>
Flammable liquid class : 1 (SRVFS 2005:10)
<u>Switzerland</u>
VOC content : VOC (w/w): 51.2%
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol Not listed.
Stockholm Convention on Persistent Organic Pollutants
Not listed.
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

15.2 Chemical safety assessment	: This pro required	duct contains substances for which Chemical Safety Assessments are still .
	<b>.</b>	

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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

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

Classification	Justification	
Flam. Liq. 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, H335	Calculation method	
STOT RE 2, H373	Calculation method	

#### Full text of abbreviated H statements

<b>⊮</b> 225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H360D	May damage the unborn child.		
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H360FDMay damage fertility. May damage the unborn child.H361dSuspected of damaging the unborn child.H373May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

#### Full text of classifications [CLP/GHS]

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