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

# **SAFETY DATA SHEET**



FEIDOPUR PRIMER ZG17 - All variants

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

## 1.1 Product identifier

Product name : FEIDOPUR PRIMER ZG17 - All variants

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

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

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

#### **National contact**

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

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number: In an emergency, call 112

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Aquatic Chronic 2, H411

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	Varning	
Hazard statements	H226 - Flammable liquid and vapour. H411 - Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other sources. No smoking. P273 - Avoid release to the environment.	<sup>-</sup> ignition
Response	P391 - Collect spillage.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, reginational and international regulations.	onal,

: 12/12/2022

Supplemental label		Repeated exposure may cause skin dryness or cracking.
elements		Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

: None known.

Other hazards which do

not result in classification

				Specific Conc.	
Product/ingredient name	Identifiers	%	Classification	Limits, M-factors and ATEs	Туре
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
5-methylhexan-2-one	REACH #: 01-2119472300-51 EC: 203-737-8 CAS: 110-12-3 Index: 606-026-00-4	<3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Repr. 2, H361d	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]

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Label No : 10101

## SECTION 3: Composition/information on ingredients

SECTION 5. Compt		SECTION 5. Composition/information on ingredients						
Phosphoric acid Polyester	-	≤2.2	Eye Irrit. 2, H319	-	[1]			
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]			
zinc 5-nitroisophthalate	REACH #: 01-2120768444-47 EC: 262-309-9 CAS: 60580-61-2	≤0.3	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[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.  $\underline{Type}$ 

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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 skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.

Skin contact	: Adverse symptoms may include the following:
	irritation
	dryness
	cracking
Ingestion	: No specific data.
4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: 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	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, wit the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion	: Decomposition products may include the following materials:
products	carbon dioxide carbon monoxide sulfur oxides
	phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident i there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

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

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## **SECTION 6: Accidental release measures**

#### 6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

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

#### Seveso Directive - Reporting thresholds

# Danger criteriaCategoryNotification and MAPP<br/>thresholdSafety report thresholdP5c<br/>E25000 tonnes<br/>200 tonnes50000 tonnes<br/>500 tonnes

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#### 7.3 Specific end use(s)

**Recommendations** 

: Not available.

# Industrial sector specific solutions

: Not available.

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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
<mark>X</mark> ylene	Regulation on Limit Values - MAC (Austria, 4/2021) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m <sup>3</sup> 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m <sup>3</sup> .
5-methylhexan-2-one	<b>Regulation on Limit Values - MAC (Austria, 4/2021)</b> TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m <sup>3</sup> 8 times per shift.
₩ylene	Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skir TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	Limit values (Belgium, 12/2023) TWA 8 hours: 20 ppm. TWA 8 hours: 93 mg/m <sup>3</sup> . STEL 15 minutes: 233 mg/m <sup>3</sup> . STEL 15 minutes: 49 ppm.
2-Methoxy-1-methylethyl acetate	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
₩ylene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene] Absorbed through skin. Limit value 8 hours: 221 mg/m <sup>3</sup> . Limit value 15 minutes: 442 mg/m <sup>3</sup> . Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.
5-methylhexan-2-one	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 95 mg/m <sup>3</sup> . Limit value 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 275 mg/m <sup>3</sup> . Limit value 15 minutes: 550 mg/m <sup>3</sup> . Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.
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Solvent naphtha (petroleum), light aromatic	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia) ELV: 100 ppm. ELV: 400 mg/m <sup>3</sup> .
Xylene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen] Absorbed through skin. STELV 15 minutes: 442 mg/m <sup>3</sup> . STELV 15 minutes: 100 ppm. ELV 8 hours: 221 mg/m <sup>3</sup> . ELV 8 hours: 50 ppm.
5-methylhexan-2-one	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) ELV 8 hours: 95 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 550 mg/m <sup>3</sup> . STELV 15 minutes: 100 ppm. ELV 8 hours: 275 mg/m <sup>3</sup> . ELV 8 hours: 50 ppm.
Xylene	Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> .
5-methylhexan-2-one	Department of labour inspection (Cyprus, 7/2021) TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> .
Solvent naphtha (petroleum), light aromatic	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [nafta solventní] TWA 8 hours: 200 mg/m <sup>3</sup> . STEL 15 minutes: 1000 mg/m <sup>3</sup> .
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen] Absorbed through skin. TWA 8 hours: 200 mg/m <sup>3</sup> . TWA 8 hours: 45.33 ppm. STEL 15 minutes: 400 mg/m <sup>3</sup> . STEL 15 minutes: 90.66 ppm.
5-methylhexan-2-one	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 42.1 ppm. STEL 15 minutes: 200 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
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<b>X</b> ylene	Working Environment Authority (Denmark, 3/2024) [xylen, alle
, , , , , , , , , , , , , , , , , , ,	<b>isomere]</b> Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m <sup>3</sup> . STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	STEL 15 minutes: 100 ppm. <b>Working Environment Authority (Denmark, 3/2024)</b> TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> . STEL 15 minutes: 190 mg/m <sup>3</sup> . STEL 15 minutes: 40 ppm.
2-Methoxy-1-methylethyl acetate	<ul> <li>Working Environment Authority (Denmark, 3/2024) [2-methox</li> <li>1-methylethylacetat] Absorbed through skin.</li> <li>TWA 8 hours: 50 ppm.</li> <li>TWA 8 hours: 275 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 550 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 100 ppm.</li> </ul>
<b>X</b> ylene	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m <sup>3</sup> . TWA 8 hours: 200 mg/m <sup>3</sup> .
5-methylhexan-2-one	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	<ul> <li>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser.</li> <li>STEL 15 minutes: 100 ppm.</li> <li>STEL 15 minutes: 550 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 275 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 50 ppm.</li> </ul>
Kylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
olvent naphtha (petroleum), light aromatic	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020) TWA 8 hours: 100 mg/m <sup>3</sup> .
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni] Absorbed through skin. STEL 15 minutes: 440 mg/m <sup>3</sup> . TWA 8 hours: 220 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.
5-methylhexan-2-one	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.

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	TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
Solvent naphtha (petroleum), light aromatic	Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12] TWA 8 hours: 1000 mg/m <sup>3</sup> . Form: Vapour. Notes: Permissible limit values (circulars) STEL 15 minutes: 1500 mg/m <sup>3</sup> . Form: Vapour. Notes: Permissible limit values (circulars)
Xylene	<ul> <li>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs] Absorbed through skin.</li> <li>STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</li> <li>STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit value (article R. 4412-149 of the Labor Code)</li> <li>TWA 8 hours: 221 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</li> <li>TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</li> </ul>
ō-methylhexan-2-one	<ul> <li>Ministry of Labor (France, 6/2024) Absorbed through skin.</li> <li>TWA 8 hours: 20 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)</li> <li>TWA 8 hours: 95 mg/m<sup>3</sup>. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)</li> <li>STEL 15 minutes: 475 mg/m<sup>3</sup>. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)</li> <li>STEL 15 minutes: 100 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)</li> </ul>
2-Methoxy-1-methylethyl acetate	Ministry of Labor (France, 6/2024) Absorbed through skin. STEL 15 minutes: 550 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit value (article R. 4412-149 of the Labor Code) TWA 8 hours: 275 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
Vlene	<ul> <li>TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through sk TWA 8 hours: 220 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 440 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 50 ppm.</li> <li>PEAK 15 minutes: 100 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) [Xylene] Develop D.</li> <li>Absorbed through skin.</li> <li>TWA 8 hours: 50 ppm.</li> <li>PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 220 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
5-methylhexan-2-one	<ul> <li>TRGS 900 OEL (Germany, 6/2024)</li> <li>TWA 8 hours: 95 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 20 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop D.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 47 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 94 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
2-Methoxy-1-methylethyl acetate	TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 270 mg/m <sup>3</sup> . PEAK 15 minutes: 270 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm. DFG MAC-values list (Germany, 7/2023) Develop C.

	TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 270 mg/m <sup>3</sup> . PEAK 15 minutes: 270 mg/m <sup>3</sup> 4 times per shift [Interval: 1 hour]
Xylene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m <sup>3</sup> .
5-methylhexan-2-one	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m <sup>3</sup> . STEL 15 minutes: 75 ppm. STEL 15 minutes: 360 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
<b>X</b> ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol izomerek keveréke] Absorbed through skin. TWA 8 hours: 221 mg/m <sup>3</sup> . PEAK 15 minutes: 442 mg/m <sup>3</sup> . PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
5-methylhexan-2-one	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b> TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) TWA 8 hours: 275 mg/m <sup>3</sup> . PEAK 15 minutes: 550 mg/m <sup>3</sup> . PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
Vylene	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 [Xýlen, allir ísómerar] Absorbed through skin. STEL 15 minutes: 442 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m <sup>3</sup> . TWA 8 hours: 25 ppm.
5-methylhexan-2-one	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 Absorbed through skin. STEL 15 minutes: 550 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
<b>X</b> ylene	<ul> <li>NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Note:</li> <li>EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 50 ppm.</li> <li>OELV 8 hours: 221 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 100 ppm.</li> <li>OELV 15 minutes: 442 mg/m<sup>3</sup>.</li> </ul>
5-methylhexan-2-one	NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 95 mg/m <sup>3</sup> .

2-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV 8 hours: 50 ppm.
	OELV 8 hours: 275 mg/m <sup>3</sup> . OELV 15 minutes: 100 ppm.
	OELV 15 minutes: 550 mg/m <sup>3</sup> .
Zinc oxide	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure
	Limit Values (OELVs)
	OELV 8 hours: 2 mg/m <sup>3</sup> . Form: respirable fraction. OELV 15 minutes: 10 mg/m <sup>3</sup> . Form: fume.
₩ylene	Legislative Decree No. 81/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020)
	[Xilene, isomeri misti, puro] Absorbed through skin.
	Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m³.
	Short Term 15 minutes: 100 ppm.
	Short Term 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	Legislative Decree No. 81/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020)
	Limit value 8 hours: 20 ppm. Limit value 8 hours: 95 mg/m³.
2-Methoxy-1-methylethyl acetate	Legislative Decree No. 81/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020)
	Absorbed through skin.
	Limit value 8 hours: 50 ppm. Limit value 8 hours: 275 mg/m³.
	Short Term 15 minutes: 100 ppm.
	Short Term 15 minutes: 550 mg/m³.
<b>X</b> ylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)
	[Ksilols] Absorbed through skin.
	TWA 8 hours: 221 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)
	TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)
	Absorbed through skin.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 550 mg/m <sup>3</sup> .
₩ylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
	[ksilenas, mišrūs izomerai, grynas] Absorbed through skin.
	STEL 15 minutes: 442 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m <sup>3</sup> .
5-methylhexan-2-one	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
	TWA 8 hours: 95 mg/m <sup>3</sup> .
	TWA 8 hours: 20 ppm. STEL 15 minutes: 190 mg/m <sup>3</sup> .
	STEL 15 minutes: 40 ppm.
2-Methoxy-1-methylethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
	Absorbed through skin.
	TWA 8 hours: 250 mg/m³. TWA 8 hours: 50 ppm.
	STEL 15 minutes: 400 mg/m <sup>3</sup> .
	STEL 15 minutes: 75 ppm.
Zinc oxide	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
	TWA 8 hours: 5 mg/m <sup>3</sup> .
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Vylene	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]
	Absorbed through skin.
	TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021) TWA 8 hours: 20 ppm.
	TWA 8 hours: $95 \text{ mg/m}^3$ .
2-Methoxy-1-methylethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 50 ppm.
	TWA 8 hours: $275 \text{ mg/m}^3$ .
	STEL 15 minutes: 100 ppm.
<b>T</b> .	STEL 15 minutes: 550 mg/m <sup>3</sup> .
<b>X</b> ylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 221 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
5-methylhexan-2-one	EU OEL (Europe, 1/2022)
	TWA 8 hours: 20 ppm.
2 Mathewy 1 mathylathyl apotate	TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm.
	TWA 8 hours: 275 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.
<b>∕</b> ylene	Ministry of Social Affairs and Employment, Legal limit values
Aylerie	(Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] Absorbed
	through skin.
	TWA 8 hours: 210 mg/m <sup>3</sup> . STEL 15 minutes: 442 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 47.5 ppm.
5-methylhexan-2-one	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 5/2024) TWA 8 hours: 233 mg/m <sup>3</sup> .
	TWA 8 hours: 49 ppm.
2-Methoxy-1-methylethyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 5/2024) TWA 8 hours: 550 mg/m <sup>3</sup> .
	TWA 8 hours: 100 ppm.
<b>X</b> ylene	FOR-2011-12-06-1358 (Norway, 12/2022) [xylen] Absorbed
	through skin.
	TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m <sup>3</sup> .
5-methylhexan-2-one	FOR-2011-12-06-1358 (Norway, 12/2022)
-	TWA 8 hours: 20 ppm.
	TWA 8 hours: 95 mg/m³. STEL 15 minutes: 250 mg/m³.
	STEL 15 minutes: 50 ppm.
2-Methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.
	TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m <sup>3</sup> .

₩ylene	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 200 mg/m <sup>3</sup> .
5-methylhexan-2-one	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023)
2-Methoxy-1-methylethyl acetate	TWA 8 hours: 95 mg/m <sup>3</sup> . Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 260 mg/m <sup>3</sup> . STEL 15 minutes: 520 mg/m <sup>3</sup> .
Kylene	Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m & p)] A4. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.
5-methylhexan-2-one	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 20 ppm. CEIL: 50 ppm.
2-Methoxy-1-methylethyl acetate	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
Solvent naphtha (petroleum), light aromatic	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Solvent nafta] Absorbed through skin. VLA 8 hours: 100 mg/m <sup>3</sup> . Short term 15 minutes: 200 mg/m <sup>3</sup> .
Xylene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen] Absorbed through skin. VLA 8 hours: 221 mg/m <sup>3</sup> . VLA 8 hours: 50 ppm. Short term 15 minutes: 442 mg/m <sup>3</sup> . Short term 15 minutes: 100 ppm.
5-methylhexan-2-one	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 95 mg/m <sup>3</sup> . VLA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 275 mg/m <sup>3</sup> . VLA 8 hours: 50 ppm. Short term 15 minutes: 550 mg/m <sup>3</sup> . Short term 15 minutes: 100 ppm.
₩ylene	Government regulation SR c. 355/2006 (Slovakia, 7/2024) [xylén, zmiešané izoméry] Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 221 mg/m <sup>3</sup> (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m <sup>3</sup> (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).
5-methylhexan-2-one	Government regulation SR c. 355/2006 (Slovakia, 7/2024)
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	Inhalation sensitiser.
	TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	TWA 8 hours: 20 ppm. <b>Government regulation SR c. 355/2006 (Slovakia, 7/2024)</b> Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
Ylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen] Absorbed through skin.
	TWA 8 hours: 221 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. KTV 15 minutes: 442 mg/m <sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
5-methylhexan-2-one	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. KTV 15 minutes: 550 mg/m <sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
Kylene	National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
<b>X</b> ylene	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
5-methylhexan-2-one	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm.

	TWA 8 hours: 275 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
Zinc oxide	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Total dust.
₩ylene	SUVA (Switzerland, 1/2024) [Xylol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m <sup>3</sup> .
5-methylhexan-2-one	SUVA (Switzerland, 1/2024) TWA 8 hours: 20 ppm. TWA 8 hours: 94 mg/m <sup>3</sup> . STEL 15 minutes: 40 ppm. STEL 15 minutes: 188 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	SUVA (Switzerland, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m <sup>3</sup> .
₩ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m p- or mixed isomers] Absorbed through skin. STEL 15 minutes: 441 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
5-methylhexan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 475 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 95 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 548 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.

## **Biological exposure indices**

Product/ingredient name	Exposure indices
Xylene .	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	
Kylene	<ul> <li>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [xylene]</li> <li>BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the work shift.</li> <li>BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</li> </ul>

## SECTION 8<sup>1</sup> Exposure controls/personal protection

₩ylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
₩ylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
₩ylene	<ul> <li>DFG BEI-values list (Germany, 7/2023) [Xylene (all isomers)]</li> <li>Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2024) [Xylene (all isomers)]</li> <li>BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</li> </ul>
No exposure indices known.	
₩ylene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xylene]</b> BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
No exposure indices known.	
▼ylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
No exposure indices known.	
▼ylene	Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [xylenes (all isomers)] BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.
No exposure indices known.	
▼ylene	<b>Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes]</b> BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
▼ylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
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<b>X</b> ylene		Government regulation SR c. 355/2006 (Slovakia, 5/2024)	
		[xylene, all isomers] BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuro	vic
		acids [in urine]. Sampling time: at the end of exposure or work sh	
		BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic ac	
		[in urine]. Sampling time: at the end of exposure or work shift.	
		BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in	
		urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, as xylene [in blood]. Sampling time: at the end	Ь
		of exposure or work shift.	u
		BLV: 2000 mg/l, as sum of 2,3,4-methylhippuroic acids [in urine	¥].
		Sampling time: at the end of exposure or work shift.	,
		BLV: 1.5 mg/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.	T
₩ylene		Regulation on protection of workers from the risks related to	0
		exposure to chemical substances at work (Slovenia, 4/2024) [xylene (all isomers)]	)
		BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.	J
₩ylene		National institute of occupational safety and health (Spain, 1/2024) [Xylenes]	
		VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling	
		time: end of shift.	
No exposure indices known.			
<b>X</b> ylene		SUVA (Switzerland, 1/2024) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time:	
		immediately after exposure or after working hours.	
₩ylene		EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-,	
		m-, p- or mixed isomers]	
		BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.	
Recommended monitoring : procedures	European S assessment values and r atmosphere of exposure (Workplace for the meas	should be made to monitoring standards, such as the following: standard EN 689 (Workplace atmospheres - Guidance for the t of exposure by inhalation to chemical agents for comparison with lim measurement strategy) European Standard EN 14042 (Workplace es - Guide for the application and use of procedures for the assessme to chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedu surement of chemical agents) Reference to national guidance for methods for the determination of hazardous substances will also the	ent ures
DNELs/DMELs			
Product/ingredient name		Result	
titanium dioxide		DNEL - General population - Long term - Inhalation	
		28 μg/m³ <u>Effects</u> : Local	
		DNEL - Workers - Long term - Inhalation	
		170 μg/m³ <u>Effects</u> : Local	
Solvent naphtha (petroleum), lig	ght aromatic	DNEL - General population - Long term - Inhalation	
		0.41 mg/m³ <u>Effects</u> : Systemic	
		DNEL - Workers - Long term - Inhalation	
		1.9 mg/m³ <u>Effects</u> : Systemic	
		DNEL - General population - Long term - Inhalation 178.57 mg/m <sup>3</sup>	
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	<u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 640 mg/m³ Effects: Local
	<b>DNEL - Workers - Long term - Inhalation</b> 837.5 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 1066.67 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 1152 mg/m <sup>3</sup> Effects: Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1286.4 mg/m³ <u>Effects</u> : Systemic
Xylene	<b>DNEL - General population - Long term - Oral</b> 5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 65.3 mg/m <sup>3</sup> Effects: Local
	DNEL - General population - Long term - Inhalation 65.3 mg/m <sup>3</sup> Effects: Systemic
	<b>DNEL - General population - Long term - Dermal</b> 125 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 212 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 260 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 260 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 442 mg/m³ <u>Effects</u> : Local
	DNFL - Workers - Short term - Inhalation

**DNEL - Workers - Short term - Inhalation** 442 mg/m<sup>3</sup> <u>Effects</u>: Systemic

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5-methylhexan-2-one	DNEL - General population - Long term - Oral
	5.12 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 5.12 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 14.2 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 17.8125 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 100.25 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 146.5 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 196.3 mg/m <sup>3</sup> <u>Effects</u> : Systemic
2-Methoxy-1-methylethyl acetate	<b>DNEL - General population - Long term - Inhalatior</b> 33 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Inhalatior</b> 33 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Oral</b> 36 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 275 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 320 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 550 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Dermal</b> 796 mg/kg bw/day <u>Effects</u> : Systemic

#### **PNECs**

Not available.

#### 8.2 Exposure controls

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	P P
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 measu	<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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure 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 physic	cal and chemical properties	
Appearance		
Physical state	: Liquid.	
Colour	: Various	
Odour	: Slight	
Odour threshold	: Not available.	
Melting point/freezing point	: Not available.	
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## **SECTION 9: Physical and chemical properties**

2

# Initial boiling point and boiling range

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	
Xylene	136.16	277.1	

Flammability	: Not available.
Lower and upper explosion	: 🔽 wer: 0.8% (xylene)
limit	Upper: 7.6% (Solvent naphtha (petroleum), light arom.)

2

2

**Flash point** 

: Closed cup: 25°C (77°F)

#### Auto-ignition temperature

Ingredient name		°C	°F	Method	
Solvent naphtha (petroleum), light aromatic		280 to 470	536 to 878		
2-Methoxy-1-methylethyl acetate		333	631.4	DIN 51794	
Decomposition temperature :	Not ava	ilable.			
pH :	Not app	licable.			
Viscosity :	Not ava	ilable.			
Solubility(ies) :					
Not available.					
Solubility in water :	Not ava	ilable.			
Partition coefficient: n-octanol/ :	Not app	licable.			

water
-------

#### Vapour pressure

	Va	Vapour Pressure at 20°C			apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>X</b> ylene	6.7	0.89				
5-methylhexan-2-one	4.99	0.67	EU A.4			
elative density	: Not	available.				

Density	: 1.7 g/cm³
Vapour density	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

#### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

- Explosive properties : Not available.
- **Oxidising properties** : Not available.

#### 9.2.2 Other safety characteristics

Not applicable.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to react	ivity available for this p	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 re	actions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition braze, solder, drill, grind or expose of		
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## **SECTION 10: Stability and reactivity**

10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous	:	Under normal conditions of storage and use, hazardous decomposition products

# decomposition products should not be produced. SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in	n Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
Solvent naphtha (petroleum), light aromatic	<b>Rat - Oral - LD50</b> 8400 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes
Xylene	<b>Rat - Oral - LD50</b> 4300 mg/kg <u>Toxic effects</u> : Liver - Other changes Kidney, Ureter, and Bladder - Other changes
	<b>Rat - Inhalation - LC50 Vapour</b> 21.7 mg/l [4 hours]
5-methylhexan-2-one	<b>Rat - Oral - LD50</b> 3200 mg/kg <u>Toxic effects</u> : Cardiac - Other changes Lung, Thorax, or Respiration - Other changes
2-Methoxy-1-methylethyl acetate	<b>Rat - Oral - LD50</b> 8532 mg/kg
	<b>Rabbit - Dermal - LD50</b> >5 g/kg

Conclusion/Summary [Product] : Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FEIDOPUR PRIMER ZG17	N/A	29837.6	N/A	167.0	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
5-methylhexan-2-one	3200	N/A	N/A	11	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

titanium dioxide

#### Result

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug l

**Xylene** 

#### Rat - Skin - Mild irritant

Duration of treatment/exposure: 8 hours Amount/concentration applied: 60 uL

#### Rabbit - Skin - Moderate irritant

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	Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
	Rabbit - Skin - Moderate irritant Amount/concentration applied: 100 %
Zinc oxide	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not availa	able.
Serious eye damage/eye irritation	
Product/ingredient name	Result
Solvent naphtha (petroleum), light aromatic	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL
Xylene	Rabbit - Eyes - Mild irritant Amount/concentration applied: 87 mg
	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg
5-methylhexan-2-one	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL
Zinc oxide	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not availa	able.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not availa	able.
Respiratory or skin sensitization Not available.	
Skin Conclusion/Summary [Product] : Not availa	able.
Respiratory Conclusion/Summary [Product] : Not availa	able.
<mark>Germ cell mutagenicity</mark> Not available.	
Conclusion/Summary [Product] : Not availa	able.
<u>Carcinogenicity</u> It has been observed that the carcinogenic hazard leading to significant impairment of particle cleara Not available.	d of this product arises when respirable dust is inhaled in quantities ance mechanisms in the lung.

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## **SECTION 11: Toxicological information**

Conclusion/Summary [Product] : Not available.

#### **Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Specific target organ toxicity (single exposure)

#### Result

Solvent naphtha (petroleum), light aromatic

Xylene 2-Methoxy-1-methylethyl acetate

**Product/ingredient name** 

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

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
<b>X</b> ylene	STOT RE 2, H373 (oral, inhalation)

#### **Aspiration hazard**

#### Product/ingredient name

Solvent naphtha (petroleum), light aromatic Xylene Information on likely routes of exposure Not available. Potential acute health effects Eve contact

ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential acute health effect	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	ysi	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	:	No specific data.
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>5</u>
Not available.		
Conclusion/Summary [Pro	du	ct] : Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
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## **SECTION 11: Toxicological information**

**Reproductive toxicity** :

: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

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

#### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

12.1 Toxicity	
Product/ingredient name	<b>Result</b> <b>Acute - LC50 - Marine water</b> Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Fresh water Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate Age: <24 hours 3 mg/l [48 hours] Effect: Mortality
Trizinc bis(orthophosphate)	<b>Acute - EC50</b> Crustaceans - <i>Ceriodaphnia dubia</i> 0.96 mg/l [48 hours]
	<b>Acute - EC50</b> Algae - <i>Selenastrum capricornutum</i> 0.32 mg/l [72 hours]
Solvent naphtha (petroleum), light aromatic	<b>Acute - LC50</b> Fish 9.2 mg/l [96 hours]
	<b>Acute - EC50</b> Daphnia 3.2 mg/l [48 hours]
5-methylhexan-2-one	<b>Acute - LC50 - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u> : 30 days; <u>Size</u> : 19.7 mm; <u>Weight</u> : 0.12 g 159000 μg/l [96 hours] <u>Effect</u> : Mortality
Zinc oxide	<b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u> : <24 hours 98 µg/l [48 hours] <u>Effect</u> : Mortality
	<b>Acute - IC50 - Fresh water</b> Algae - Green algae - <i>Pseudokirchneriella subcapitata -</i> Exponential growth phase 46 μg/l [72 hours] <u>Effect</u> : Population
	<b>Acute - LC50 - Fresh water</b> US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>

## **SECTION 12: Ecological information**

Weight: 0.78 g 1.1 ppm [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

#### 12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>F</b> rizinc bis(orthophosphate)	-	60960	High
Solvent naphtha (petroleum),	-	10 to 2500	High
light aromatic			_
Xylene	3.12	8.1 to 25.9	Low
5-methylhexan-2-one	1.88	-	Low
2-Methoxy-1-methylethyl	1.2	-	Low
acetate			
Zinc oxide	-	28960	High

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
methylhexan-2-one 2-Methoxy-1-methylethyl acetate	1.53 0.36	33.6565 2.31363

#### **Results of PMT and vPvM assessment**

gredient name	PMT	Р	М	Т	vPvM	vP	vM
oxide	No	No	No	No	No	No	No
orthophosphate)	No	No	No	No	No	No	No
phtha (petroleuḿ), itic	No	No	No	No	No	No	No
	No	No	No	No	No	No	No
exan-2-one	No	No	No	No	No	No	No
-1-methylethyl	No	No	No	No	No	No	No
c acid Polyester	No	No	No	No	No	No	No
,	No	No	No	No	No	No	No
isophthalate	No	No	No	No	No	No	No
isoprimalate		ailable.	INO	INO	INU		INO

**Conclusion/Summary** 

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

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
5-methylhexan-2-one	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Phosphoric acid Polyester	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
zinc 5-nitroisophthalate	No	No	No	No	No	No	No

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## **SECTION 12: Ecological information**

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
5-methylhexan-2-one	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Phosphoric acid Polyester	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
zinc 5-nitroisophthalate	No	No	No	No	No	No	No

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

#### 12.6 Endocrine disrupting properties

Not available.

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 080111
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.

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	ADR/RID		ADN	I	MDG	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	<	¥2			¥2	3
14.4 Packing group				111			
14.5 Environmental hazards	Yes.			Yes.	Yes.		Yes. The environmentally hazardous substance mark is not required.
Additional informa	<u>ation</u>			-	ŀ		·
ADR/RID		:	hazardous packagings	is not subject to re meet the general o 2.2.3.1.5.2.	gulation in packa	gings up to t	is also environmentally 5 L, provided the and 4.1.1.4 to 4.1.1.8
ADN		:	hazardous packagings	is not subject to re	gulation in packa	gings up to t	is also environmentally 5 L, provided the and 4.1.1.4 to 4.1.1.8
IMDG		:	hazardous	is not subject to re meet the general	gulation in packa	gings up to t	is also environmentally 5 L, provided the and 4.1.1.4 to 4.1.1.8
ΙΑΤΑ		:	The environmentally hazardous substance mark may appear if required by other transportation regulations.				
<b>14.6 Special precautions for user</b> : <b>Transport within user's premises:</b> always transport in closed containers upright and secure. Ensure that persons transporting the product know whethe event of an accident or spillage.							
14.7 Maritime trans bulk according to I instruments		:	Not relevar	nt/applicable due to	nature of the pro	oduct.	

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		%	Designa	tion [Usage]			
	FEIDOPUR PRIMER ZG17		≥90	3				
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Labelling	:
Other EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors	: Not applicable.
Ozone depleting substance	es (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria		
Category		
₽5c		
E2		

#### National regulations

<u>Austria</u> Limitation of the use of : Permitted. organic solvents

#### <u>Belgium</u>

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Silice	Listed
Styrène	Listed
Noirs de charbon	Listed

Czech Republic

Storage code	1	II
<u>Denmark</u>		
Fire class	:	<mark>//</mark> -1

Executive Order No. 1795/2015

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

MAL-code : #-3

**Protection based on MAL** 

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

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

In all spraying operations in which there is return spray, the following must be worn:

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respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-3	
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**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 Working Environment Authorities Executive Order r	0		
List of undesirable substances	: Not listed			
Carcinogenic waste	: Waste containers must be labeled: Contains a subs by Danish working environment legislation on cance			
<u>Finland</u>				
<b>France</b>				
Social Security Code,	: 🕱olvent naphtha (petroleum), light aromatic	RG 84		
Articles L 461-1 to L 461-7	Xylene	RG 4bis, RG 84		
	5-methylhexan-2-one	RG 84		
	2-Methoxy-1-methylethyl acetate	RG 84		

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Reinforced medical
surveillance

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

#### <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
E2	1.3.2

#### Hazard class for water : 2

#### Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	72.5
5.2.5	Organic substances	19
5.2.5 [I]	Organic substances	10.6
5.2.7.2	Poorly degradable, easily accumulating and highly toxic organic substances	0.25
5.2.10	Soil polluting substances	8.2
AOX	: The product contains organically bound halogens and can contribute to value in waste water.	the AOX

#### 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		Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
xylene	-	-	-	Development 2	-

 

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

#### Norway Sweden Flammable liquid class : 2a (SRVFS 2005:10) Switzerland VOC content : VOC (w/w): 15.4%

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.

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#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **15.2 Chemical safety** assessment

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

## **SECTION 16: Other information**

Indicates information that 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 SGG = Segregation Group</li> </ul>
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
	On basis of test data Calculation method	

#### Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

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Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 2	LONG-TERM (CHRC LONG-TERM (CHRC ASPIRATION HAZAF CARCINOGENICITY SERIOUS EYE DAM FLAMMABLE LIQUID REPRODUCTIVE TO SKIN CORROSION/I SPECIFIC TARGET	ITE) AQUATIC HAZAR DNIC) AQUATIC HAZA DNIC) AQUATIC HAZA RD - Category 1 - Category 2 AGE/EYE IRRITATION DS - Category 3 DXICITY - Category 2 RRITATION - Category ORGAN TOXICITY - R	RD - Category 1 RD - Category 2 I - Category 2	

## **SECTION 16: Other information**

#### 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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