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

# **SAFETY DATA SHEET**



FEIDOPUR ZD55 - All variants

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

## 1.1 Product identifier

Product name : FEIDOPUR ZD55 - 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]

Fam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

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

#### 2.2 Label elements

Hazard pictograms



Signal word	/arning	
Hazard statements	317 - May cause 319 - Causes se 336 - May cause	e liquid and vapour. e an allergic skin reaction. erious eye irritation. e drowsiness or dizziness. o aquatic life with long lasting effects.
Precautionary statements		
Prevention	210 - Keep awa ources. No smol	ective gloves. Wear eye or face protection. y from heat, hot surfaces, sparks, open flames and other ignition king. ase to the environment.

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## **SECTION 2: Hazards identification**

SECTION 2. Hazarus	IC	ientification
Response	:	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	-	Contains: n-Butyl acetate; Acrylic polymer; Solvent naphtha (petroleum), light aromatic and Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
Supplemental label elements	:	Repeated exposure may cause skin dryness or cracking. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

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

3.2 Mixtures	: Mixture	[				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
<b>H</b> anium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥25 - ≤50	Carc. 2, H351 (inhalation)	-	[1] [*]	
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]	
Acrylic polymer	-	≤10	Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[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]	
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]	
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1100 mg/kg ATE [Inhalation	[1] [2]	
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SECTION 3: Compo	sition/informat	ion on in	gredients		
	CAS: 1330-20-7 Index: 601-022-00-9		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	(vapours)] = 11 mg/ I	
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.62	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2120101675-63	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 STOT RE 2, H373 (digestive system, immune system, liver) Aquatic Chronic 3, H412 See Section 16 for the full text of the H	ATE [Oral] = 500 mg/kg	[1]
			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

[\*] 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**

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

Skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness **Skin contact** Adverse symptoms may include the following: 2 irritation redness dryness cracking Ingestion : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	No specific treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, $CO_2$ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.
substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst, with
	the risk of a subsequent explosion. This material is harmful to aquatic life with long
	lasting effects. Fire water contaminated with this material must be contained and
	prevented from being discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures			
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.		

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

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

to the environment if released in large quantities.

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

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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

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## SECTION 7: Handling and storage

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

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

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

#### Seveso Directive - Reporting thresholds

#### Danger criteria

	Notification and MAPP threshold	Safety report threshold
₱5c	5000 tonnes	50000 tonnes

### 7.3 Specific end use(s)

Recommendations

: Not available.

# Industrial sector specific solutions

: Not available.

## **SECTION 8: Exposure controls/personal protection**

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

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values	
P-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021) [Butylacetat alle Isomeren außer tert-Butylacet] CEIL: 480 mg/m <sup>3</sup> . CEIL: 100 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.	
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.	
Xylene	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.	
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	TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³.
2-butoxyethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 4/2021)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> . PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 270 mg/m <sup>3</sup> 4 times per shift.
r-Butyl acetate	Limit values (Belgium, 12/2023) [butylacetaat] STEL 15 minutes: 712 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m <sup>3</sup> . TWA 8 hours: 50 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> .
Xylene	Limit values (Belgium, 12/2023) [Xyleen] 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> .
2-butoxyethyl acetate	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
P-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 241 mg/m <sup>3</sup> . Limit value 15 minutes: 723 mg/m <sup>3</sup> . Limit value 15 minutes: 150 ppm. Limit value 8 hours: 50 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.
Xylene	Limit value 8 hours: 50 ppm. <b>Ministry of Labour and Social Policy and the Ministry of</b> <b>Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]</b> 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.
2-butoxyethyl acetate	Limit value 8 hours: 50 ppm. <b>Ministry of Labour and Social Policy and the Ministry of</b> <b>Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Absorbed through skin. Limit value 8 hours: 133 mg/m <sup>3</sup> . Limit value 15 minutes: 333 mg/m <sup>3</sup> . Limit value 8 hours: 20 ppm. Limit value 15 minutes: 50 ppm.
propylidynetrimethanol	Limit value 15 minutes: 50 ppm. <b>Ministry of Labour and Social Policy and the Ministry of</b> <b>Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Limit value 8 hours: 50 mg/m <sup>3</sup> .
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n-Butyl acetate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (Croatia, 12/2023) STELV 15 minutes: 723 mg/m <sup>3</sup> . STELV 15 minutes: 150 ppm. ELV 8 hours: 241 mg/m <sup>3</sup> . ELV 8 hours: 50 ppm.		
Solvent naphtha (petroleum), light aromatic	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (Croatia) ELV: 100 ppm. ELV: 400 mg/m <sup>3</sup> .		
2-Methoxy-1-methylethyl acetate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (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	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (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.		
2-butoxyethyl acetate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 333 mg/m <sup>3</sup> . STELV 15 minutes: 50 ppm. ELV 8 hours: 133 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.		
-Butyl acetate	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 241 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> .		
Kylene	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> .		
2-butoxyethyl acetate	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> .		
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P-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.	
Solvent naphtha (petroleum), light aromatic	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [nafta solventní] TWA 8 hours: 200 mg/m <sup>3</sup> . STEL 15 minutes: 1000 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.	
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.	
2-butoxyethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 130 mg/m <sup>3</sup> . TWA 8 hours: 19.5 ppm. STEL 15 minutes: 300 mg/m <sup>3</sup> . STEL 15 minutes: 45 ppm.	
P-Butyl acetate	Working Environment Authority (Denmark, 3/2024) [butylacetat, alle isomerer] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm.	
2-Methoxy-1-methylethyl acetate	Working Environment Authority (Denmark, 3/2024) [2-methoxy- 1-methylethylacetat] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 550 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.	
Xylene	Working Environment Authority (Denmark, 3/2024) [xylen, alle isomere] 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> . STEL 15 minutes: 100 ppm.	
2-butoxyethyl acetate	Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 134 mg/m <sup>3</sup> . STEL 15 minutes: 333 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.	
p-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> .	
2-Methoxy-1-methylethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .	
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	TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
ylene	Occupational exposure limits, Regulation No. 293 (Estonia,
	<b>4/2024) [ksüleen]</b> 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> .
-butoxyethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia
	4/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 133 mg/m <sup>3</sup> .
	TWA 8 hours: 20 ppm.
	STEL 15 minutes: 333 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
-Butyl acetate	EU OEL (Europe, 1/2022)
	STEL 15 minutes: 150 ppm.
	STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 241 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm.
-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022) 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> .
(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/m <sup>3</sup> .
-butoxyethyl acetate	EU OEL (Europe, 1/2022) Absorbed through skin.
	TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm.
7	STEL 15 minutes: 333 mg/m <sup>3</sup> .
-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)
	TWA 8 hours: 150 ppm.
	TWA 8 hours: 720 mg/m <sup>3</sup> .
	STEL 15 minutes: 200 ppm. STEL 15 minutes: 960 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> .
-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) Absorbed through skin.
	TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.
ylene	STEL 15 minutes: 550 mg/m <sup>3</sup> . Institute of Occupational Health, Ministry of Social Affairs
, sione	(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.
-butoxyethyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 130 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
	STEL 15 minutes: 50 ppm. STEL 15 minutes: 330 mg/m <sup>3</sup> .

U						
	F-Butyl acetate		(article R. 4412-149 TWA 8 hours: 241 (article R. 4412-149 STEL 15 minutes: (article R. 4412-149 STEL 15 minutes:	pm. Notes: Binding r of the Labor Code) mg/m <sup>3</sup> . Notes: Bindir of the Labor Code) 150 ppm. Notes: Bind	ng regulatory limit va ding regulatory limit inding regulatory lim	alues values
	Solvent naphtha (petroleum), light	aromatic	TWA 8 hours: 1000 limit values (circulars	1500 mg/m³. Form: V	our. Notes: Permissi	
	2-Methoxy-1-methylethyl acetate		Ministry of Labor (I STEL 15 minutes: values (article R. 44 STEL 15 minutes: (article R. 4412-149 TWA 8 hours: 275 (article R. 4412-149	France, 6/2024) Abso 550 mg/m <sup>3</sup> . Notes: Bi 12-149 of the Labor ( 100 ppm. Notes: Bind of the Labor Code) mg/m <sup>3</sup> . Notes: Bindir of the Labor Code) pm. Notes: Binding re	inding regulatory lim Code) ding regulatory limit ng regulatory limit va	nit values alues
	Xylene		purs] Absorbed thro STEL 15 minutes: values (article R. 44 STEL 15 minutes: (article R. 4412-149 TWA 8 hours: 221 (article R. 4412-149	442 mg/m <sup>3</sup> . Notes: Bi 12-149 of the Labor ( 100 ppm. Notes: Bind of the Labor Code) mg/m <sup>3</sup> . Notes: Bindir of the Labor Code) pm. Notes: Binding re	inding regulatory lim Code) ding regulatory limit ng regulatory limit va	nit values alues
	2-butoxyethyl acetate		STEL 15 minutes: values (article R. 44 STEL 15 minutes: (article R. 4412-149 TWA 8 hours: 66.5 (article R. 4412-149	mg/m <sup>3</sup> . Notes: Bindi of the Labor Code) pm. Notes: Binding r	inding regulatory lim Code) ing regulatory limit v ing regulatory limit v	nit values values
	p-Butyl acetate		TWA 8 hours: 100 PEAK 15 minutes: TWA 8 hours: 480	mg/m <sup>3</sup> . pm. 600 mg/m <sup>3</sup> . 124 ppm. <b>st (Germany, 7/2023</b> ppm. 200 ppm 4 times per	shift [Interval: 1 ho	-
	2-Methoxy-1-methylethyl acetate		TRGS 900 OEL (Ge TWA 8 hours: 270 PEAK 15 minutes: TWA 8 hours: 50 p PEAK 15 minutes: DFG MAC-values li TWA 8 hours: 50 p PEAK 15 minutes: TWA 8 hours: 270	<b>rmany, 6/2024)</b> mg/m <sup>3</sup> . 270 mg/m <sup>3</sup> . pm. 50 ppm. <b>st (Germany, 7/2023</b> pm. 50 ppm 4 times per s	<b>3)</b> Develop C. shift [Interval: 1 hou	r].
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Xylene	<ul> <li>TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m<sup>3</sup>. PEAK 15 minutes: 440 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m<sup>3</sup>. PEAK 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
2-butoxyethyl acetate	<ul> <li>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.</li> <li>TWA 8 hours: 65 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 130 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin.</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: 66 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 132 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
P-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 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> .
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> .
2-butoxyethyl acetate	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 20 ppm. TWA 8 hours: 135 mg/m <sup>3</sup> . STEL 15 minutes: 40 ppm. STEL 15 minutes: 270 mg/m <sup>3</sup> .
P-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Sensitiser. TWA 8 hours: 241 mg/m <sup>3</sup> . PEAK 15 minutes: 723 mg/m <sup>3</sup> . PEAK 15 minutes: 150 ppm. TWA 8 hours: 50 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.
Xylene	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.
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	TWA 8 hours: 50 ppm.
2-butoxyethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed throug skin.
	TWA 8 hours: 133 mg/m <sup>3</sup> .
	PEAK 15 minutes: 333 mg/m <sup>3</sup> .
	PEAK 15 minutes: 50 ppm.
	TWA 8 hours: 20 ppm.
<mark>7</mark> -Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 [bútýlasetat, allir ísómerar]
	TWA 8 hours: 241 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³.
	STEL 15 minutes: 150 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: $275 \text{ mg/m}^3$ .
	TWA 8 hours: 50 ppm.
(ylene	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.
-butoxyethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 11/202
	Absorbed through skin. STEL 15 minutes: 333 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm.
	TWA 8 hours: 133 mg/m <sup>3</sup> .
<b>7</b>	TWA 8 hours: 20 ppm.
-Butyl acetate	<b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational
	Exposure Limit Values OELV 8 hours: 50 ppm.
	OELV 8 hours: 241 mg/m <sup>3</sup> .
	OELV 15 minutes: 150 ppm.
P-Methoxy-1-methylethyl acetate	OELV 15 minutes: 723 mg/m <sup>3</sup> .
	<b>NAOSH (Ireland, 4/2024)</b> 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> .
(ylene	NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Note
	EU derived Occupational Exposure Limit Values
	OELV 8 hours: 50 ppm.
	OELV 8 hours: 221 mg/m³. OELV 15 minutes: 100 ppm.
	OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m <sup>3</sup> .
2-butoxyethyl acetate	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV 8 hours: 20 ppm.
	OELV 8 hours: 133 mg/m <sup>3</sup> . OELV 15 minutes: 50 ppm.
	OELV 15 minutes: 333 mg/m <sup>3</sup> .
-Butyl acetate	EU OEL (Europe, 1/2022)
	STEL 15 minutes: 150 ppm.
	STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³.
	TWA 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	Legislative Decree No. 81/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020)

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	Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 275 mg/m <sup>3</sup> . Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 550 mg/m <sup>3</sup> .
Xylene	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)
2-butoxyethyl acetate	<ul> <li>[Xilene, isomeri misti, puro] Absorbed through skin.</li> <li>Limit value 8 hours: 50 ppm.</li> <li>Limit value 8 hours: 221 mg/m<sup>3</sup>.</li> <li>Short Term 15 minutes: 100 ppm.</li> <li>Short Term 15 minutes: 442 mg/m<sup>3</sup>.</li> <li>Legislative Decree No. 81/2008. Title IX. Protection from</li> </ul>
	chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 133 mg/m <sup>3</sup> . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 333 mg/m <sup>3</sup> .
-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 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> .
Xylene	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> .
2-butoxyethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
<b>γ</b> -Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm.
2-Methoxy-1-methylethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 250 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 400 mg/m <sup>3</sup> . STEL 15 minutes: 75 ppm.
Xylene	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> .
2-butoxyethyl acetate	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b> Absorbed through skin. TWA 8 hours: 70 mg/m³.

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	TWA 8 hours: 10 ppm.
	STEL 15 minutes: 140 mg/m <sup>3</sup> . STEL 15 minutes: 20 ppm.
propylidynetrimethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) CEIL: 5 ppm.
α-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> .
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 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
Xylene	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> .
2-butoxyethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
α-Butyl acetate	EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 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> .
Xylene	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> .
2-butoxyethyl acetate	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
A-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 50 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.
Xylene	Ministry of Social Affairs and Employment, Legal limit values

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	(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.
2-butoxyethyl acetate	TWA 8 hours: 47.5 ppm. <b>Ministry of Social Affairs and Employment, Legal limit values</b> <b>(Netherlands, 5/2024)</b> Absorbed through skin. TWA 8 hours: 135 mg/m <sup>3</sup> . STEL 15 minutes: 333 mg/m <sup>3</sup> . TWA 8 hours: 20.3 ppm. STEL 15 minutes: 50 ppm.
p-Butyl acetate	<b>FOR-2011-12-06-1358 (Norway, 12/2022)</b> STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin TWA 8 hours: 50 ppm.
Xylene	TWA 8 hours: 270 mg/m <sup>3</sup> . <b>FOR-2011-12-06-1358 (Norway, 12/2022) [xylen]</b> Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m <sup>3</sup>
2-butoxyethyl acetate	TWA 8 hours: 108 mg/m <sup>3</sup> . <b>FOR-2011-12-06-1358 (Norway, 12/2022)</b> Absorbed through skin TWA 8 hours: 10 ppm. TWA 8 hours: 65 mg/m <sup>3</sup> .
<mark>p-</mark> Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) TWA 8 hours: 240 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	STEL 15 minutes: 720 mg/m <sup>3</sup> . <b>Regulation of the Minister of Family, Labor and Social Policy</b> <b>of June 12, 2018 on the maximum permissible concentrations</b> <b>and intensities of factors harmful to health in the work</b> <b>environment (Journal of Laws of 2018, item 1286) (Poland,</b> <b>8/2023)</b> Absorbed through skin. TWA 8 hours: 260 mg/m <sup>3</sup> . STEL 15 minutes: 520 mg/m <sup>3</sup> .
Xylene	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> .
2-butoxyethyl acetate	STEL 15 minutes: 200 mg/m <sup>3</sup> . <b>Regulation of the Minister of Family, Labor and Social Policy</b> <b>of June 12, 2018 on the maximum permissible concentrations</b> <b>and intensities of factors harmful to health in the work</b> <b>environment (Journal of Laws of 2018, item 1286) (Poland,</b> <b>8/2023)</b> Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 300 mg/m <sup>3</sup> .
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#### SECTION 8: Exposure controls/personal protection Portuguese Institute of Quality (Portugal, 11/2014) p-Butyl acetate TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm. 2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022) Absorbed through skin.

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>.

(isómeros o, m & p)] A4. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

TWA 8 hours: 20 ppm.

additions (Romania, 3/2024) VLA 8 hours: 241 mg/m<sup>3</sup>. VLA 8 hours: 50 ppm.

VLA 8 hours: 100 mg/m<sup>3</sup>.

VLA 8 hours: 275 mg/m<sup>3</sup>. VLA 8 hours: 50 ppm.

VLA 8 hours: 221 mg/m<sup>3</sup>. VLA 8 hours: 50 ppm.

VLA 8 hours: 133 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm.

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.

Short term 15 minutes: 723 mg/m<sup>3</sup>. Short term 15 minutes: 150 ppm.

Short term 15 minutes: 200 mg/m<sup>3</sup>.

Short term 15 minutes: 550 mg/m<sup>3</sup>. Short term 15 minutes: 100 ppm.

Short term 15 minutes: 442 mg/m<sup>3</sup>. Short term 15 minutes: 100 ppm.

Short term 15 minutes: 333 mg/m<sup>3</sup>. Short term 15 minutes: 50 ppm.

[butylacetáty] Inhalation sensitiser.

TWA 8 hours: 241 mg/m<sup>3</sup> (Butyl acetates). TWA 8 hours: 50 ppm (Butyl acetates). STEL 15 minutes: 723 mg/m<sup>3</sup> (Butyl acetates). STEL 15 minutes: 150 ppm (Butyl acetates).

Absorbed through skin. Inhalation sensitiser.

Portuguese Institute of Quality (Portugal, 11/2014) [xileno

Portuguese Institute of Quality (Portugal, 11/2014) A3.

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

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Solvent nafta] Absorbed through

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

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

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

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

[xylén, zmiešané izoméry] Absorbed through skin, Inhalation

additions (Romania, 3/2024) Absorbed through skin.

additions (Romania, 3/2024) [xilen] Absorbed through skin.

additions (Romania, 3/2024) Absorbed through skin.

Xylene
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2-butoxyethyl acetate

p-Butyl acetate

Solvent naphtha (petroleum), light aromatic

2-Methoxy-1-methylethyl acetate

**Xylene** 

2-butoxyethyl acetate

p-Butyl acetate

2-Methoxy-1-methylethyl acetate

**Xylene** 

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sensitiser.

STEL 15 minutes: 442 mg/m<sup>3</sup> (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).

TWA 8 hours: 221 mg/m<sup>3</sup> (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers).

2-butoxyethyl acetate	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 133 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
P-Butyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. KTV 15 minutes: 723 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: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]
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]
Xylene	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]
2-butoxyethyl 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: 133 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. KTV 15 minutes: 333 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: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]
<mark>p-</mark> Butyl acetate	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 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> .
Xylene	National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
2-butoxyethyl acetate	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm.

	TWA 8 hours: 133 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate]
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 241 mg/m <sup>3</sup> .
	STEL 15 minutes: 150 ppm.
Matheway 1 mathedathed a sateta	STEL 15 minutes: 723 mg/m <sup>3</sup> .
-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> .
(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> .
-butoxyethyl acetate	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin.
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 70 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m <sup>3</sup> .
ropylidynetrimethanol	Work environment authority Regulation 2018:1 (Sweden,
	<b>11/2022)</b> TWA 8 hours: 5 mg/m <sup>3</sup> .
-Butyl acetate	SUVA (Switzerland, 1/2024)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 240 mg/m <sup>3</sup> .
	STEL 15 minutes: 150 ppm. STEL 15 minutes: 720 mg/m³.
-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	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> .
-butoxyethyl acetate	SUVA (Switzerland, 1/2024) Absorbed through skin.
	TWA 8 hours: 10 ppm. Form: vapour and aerosols.
	TWA 8 hours: 66 mg/m <sup>3</sup> . Form: vapour and aerosols.
	STEL 15 minutes: 20 ppm. Form: vapour and aerosols. STEL 15 minutes: 132 mg/m <sup>3</sup> . Form: vapour and aerosols.
-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 966 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm.
	TWA 8 hours: 724 mg/m <sup>3</sup> .
	TWA 8 hours: 150 ppm.
-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/m³.
	STEL 15 minutes: 100 ppm.
(ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,r

	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.		
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed		
	through skin.		
	TWA 8 hours: 20 ppm.		
	STEL 15 minutes: 50 ppm.		
	STEL 15 minutes: 332 mg/m <sup>3</sup> .		
	TWA 8 hours: 133 mg/m <sup>3</sup> .		

### **Biological exposure indices**

Product/ingredient nar	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.	
₩ylene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
Xylene	<b>Government regulation of Czech Republic Limit Values of</b> <b>Biological Exposure Tests (Czech Republic, 9/2015) [Xylene]</b> 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.
2-butoxyethyl acetate	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
butoxyethyl acetate	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).
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SECTION 8: Exposure	controls/	personal protection
₩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>
2-butoxyethyl acetate		<ul> <li>DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>TRGS 903 - BEI Values (Germany, 2/2024)</li> <li>BEI: 150 mg/g, butoxy acetic acid (after hydrolysis) [in urine].</li> <li>Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.</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.		
Xylene		<b>NAOSH (Ireland, 1/2011) [Xylene]</b> 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.		
Xylene		<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.
₩ylene		Government regulation SR c. 355/2006 (Slovakia, 5/2024) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids [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: 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 of exposure or work shift. BLV: 2000 mg/l, as sum of 2,3,4-methylhippuroic acids [in urine].
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		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.
<b>X</b> ylene		Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)
		<b>[xylene (all isomers)]</b> BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
2-butoxyethyl acetate		Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
<b>X</b> 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.		
¥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.
2-butoxyethyl acetate		SUVA (Switzerland, 1/2024) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [i urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
Kylene		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 Star assessment or values and me atmospheres - of exposure to (Workplace at for the measure	build be made to monitoring standards, such as the following: Indard EN 689 (Workplace atmospheres - Guidance for the f exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessmen chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedure rement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be
DNELs/DMELs	·	
Product/ingredient name		Result
Manium dioxide		<b>DNEL - General population - Long term - Inhalation</b> 28 μg/m³ <u>Effects</u> : Local
		<b>DNEL - Workers - Long term - Inhalation</b> 170 μg/m³ <u>Effects</u> : Local
n-Butyl acetate		<b>DNEL - General population - Long term - Oral</b> 2 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Oral</b> 2 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Dermal

3.4 mg/kg bw/day Effects: Systemic

**DNEL - General population - Short term - Dermal** 6 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Dermal** 7 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Short term - Dermal** 11 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 12 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 35.7 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Inhalation** 48 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Short term - Inhalation** 300 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Short term - Inhalation** 300 mg/m<sup>3</sup> <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 300 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 600 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - Workers - Short term - Inhalation** 600 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 0.41 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 1.9 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 178.57 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Short term - Inhalation** 640 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - Workers - Long term - Inhalation** 837.5 mg/m<sup>3</sup> Effects: Local

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Solvent naphtha (petroleum), light aromatic

DNEL - Workers - Short term - Inhalation 1066.67 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Short term - Inhalation** 1152 mg/m<sup>3</sup> <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 1286.4 mg/m<sup>3</sup> Effects: Systemic

2-Methoxy-1-methylethyl acetate

33 mg/m<sup>3</sup> <u>Effects</u>: Local **DNEL - General population - Long term - Inhalation** 

**DNEL - General population - Long term - Inhalation** 

33 mg/m<sup>3</sup> Effects: Systemic

**DNEL - General population - Long term - Oral** 36 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 275 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 320 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 550 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Dermal** 796 mg/kg bw/day <u>Effects</u>: Systemic

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

**DNEL - General population - Long term - Inhalation** 65.3 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Long term - Inhalation** 65.3 mg/m<sup>3</sup> <u>Effects</u>: Systemic

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

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

DNEL - Workers - Long term - Inhalation 221 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Inhalation** 

**Xylene** 

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	221 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 260 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 260 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 442 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 442 mg/m³ <u>Effects</u> : Systemic
2-butoxyethyl acetate	<b>DNEL - General population - Long term - Inhalation</b> 80 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 133 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 200 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Oral</b> 8.6 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 36 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Dermal</b> 72 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 102 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Dermal</b> 120 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 169 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 333 mg/m³ <u>Effects</u> : Local
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<b>DNEL - General population - Long term - Oral</b> 0.18 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 0.31 mg/m <sup>3</sup> <u>Effects</u> : Systemic
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**DNEL - General population - Long term - Dermal** 0.9 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 1.27 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Dermal** 1.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Oral** 0.34 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 0.34 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 0.58 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Dermal** 0.94 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 3.3 mg/m<sup>3</sup> <u>Effects</u>: Systemic

#### **PNECs**

Not available.

propylidynetrimethanol

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 measured	res	
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		

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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	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties

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

Ingredient name	°C	°F	Method
▶ Butyl acetate	126	258.8	OECD 103
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

Flammability	: Not available.
Lower and upper explosion limit	: <b>I</b> ∕ower: 0.8% (xylene) Upper: 7.6% (n-butyl acetate)
Flash point	:
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

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Decomposition temperature	1	Not available.
рН	;	Not applicable.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.

### Vapour pressure

	Va	apour Pressu	ure at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
p-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Xylene	6.7	0.89					
Relative density	: Not	available.	+				
Density	: 1.3	g/cm³					
Vapour density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
2 Other information							
9.2.1 Information with reg	ard to physic	al hazard cl	asses				

9.2.1 mormation with regard	i to pi	iysicai nazaru cia
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
9.2.2 Other safety characteris	stics	

Not applicable.

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

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

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as	defined in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result

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-Butyl acetate	<b>Rat - Oral - LD50</b> 10760 mg/kg EU
	Rabbit - Dermal - LD50 14112 mg/kg
	<b>Rat - Inhalation - LC50 Vapour</b> 0.74 mg/l [4 hours]
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
2-Methoxy-1-methylethyl acetate	<b>Rat - Oral - LD50</b> 8532 mg/kg
	<b>Rabbit - Dermal - LD50</b> >5 g/kg
Kylene	<b>Rat - Oral - LD50</b> 4300 mg/kg <u>Toxic effects</u> : Liver - Other changes Kidney, Ureter, and Bladder - Other changes
	Rat - Inhalation - LC50 Vapour 21.7 mg/l [4 hours]
2-butoxyethyl acetate	<b>Rat - Oral - LD50</b> 2400 mg/kg <u>Toxic effects</u> : Kidney, Ureter, and Bladder - Hematuria Kidne Ureter, and Bladder - Other changes in urine composition
	<b>Rabbit - Dermal - LD50</b> 1500 mg/kg <u>Toxic effects</u> : Kidney, Ureter, and Bladder - Hematuria Kidne Ureter, and Bladder - Other changes in urine composition Blood - Normocytic anemia
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<b>Rat - Oral - LD50</b> 3230 mg/kg
	<b>Rat - Dermal - LD50</b> >3170 mg/kg
propylidynetrimethanol	<b>Rat - Oral - LD50</b> 14000 mg/kg

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

## Acute toxicity estimates

Product/ingredien	t name	0	ral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<i>Date of issue/Date of revision</i> FEIDOPUR ZD55 - All variants	: 27/05/2025	Date of pr	evious issue	: 21/03/	2024	Version Label No :	

## SECTION 11: Toxicological information

FEIDOPUR ZD55	23255.8	25102.3	N/A	222.0	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
2-butoxyethyl acetate	500	1500	N/A	11	N/A
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
propylidynetrimethanol	14000	N/A	N/A	N/A	N/A
Fatty acids, tall-oil, compds. with oleylamine	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation	
Product/ingredient name	Result
inanium dioxide	Human - Skin - Mild irritant
	Duration of treatment/exposure: 72 hours
	Amount/concentration applied: 300 ug l
n-Butyl acetate	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
Xylene	Rat - Skin - Mild irritant
	Duration of treatment/exposure: 8 hours
	Amount/concentration applied: 60 uL
	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
	Rabbit - Skin - Moderate irritant
	Amount/concentration applied: 100 %
2-butoxyethyl acetate	Rabbit - Skin - Mild irritant
	Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not availabl	e.
Serious eye damage/eye irritation	
Product/ingredient name	Result
-Butyl acetate	Rabbit - Eyes - Moderate irritant
	Amount/concentration applied: 100 mg
Solvent naphtha (petroleum), light aromatic	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 100 uL
Xylene	Rabbit - Eyes - Mild irritant
	Amount/concentration applied: 87 mg
	Rabbit - Eyes - Severe irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 5 mg
2-butoxyethyl acetate	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 24 hours

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

### **Respiratory corrosion/irritation**

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Amount/concentration applied: 500 mg

## **SECTION 11: Toxicological information**

Not available.

Conclusion/Summary [Product]	: Not available.
Respiratory or skin sensitization Not available.	
Skin Conclusion/Summary [Product] Respiratory Conclusion/Summary [Product]	<ul><li>Not available.</li><li>Not available.</li></ul>
<u>Germ cell mutagenicity</u> Not available.	

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

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. Not available.

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

#### **Reproductive toxicity**

Not available.

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

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

Product/ingredient name	Result
<b>p</b> -Butyl acetate	STOT SE 3, H336 (Narcotic effects)
Solvent naphtha (petroleum), light aromatic	STOT SE 3, H335 (Respiratory tract irritation)
	STOT SE 3, H336 (Narcotic effects)
2-Methoxy-1-methylethyl acetate	STOT SE 3, H336 (Narcotic effects)
Xylene	STOT SE 3, H335 (Respiratory tract irritation)

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

Product/ingredient name	Result
Xylene	STOT RE 2, H373 (oral, inhalation)
Fatty acids, tall-oil, compds. with oleylamine	STOT RE 2, H373 (digestive system, immune system, liver)

Result

#### Aspiration hazard

#### **Product/ingredient name**

Solvent naphtha (petroleum), light aromatic Xylene

Information on likely routes of exposure

Not available.

## Potential acute health effects

Eye contact

Inhalation

: Zauses serious eye irritation.

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**ASPIRATION HAZARD - Category 1** 

**ASPIRATION HAZARD - Category 1** 

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## **SECTION 11: Toxicological information**

Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the pl	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate eff	ects 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 eff Not available.	fects
Conclusion/Summary [Pr	roduct] : Not available.
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
11.2 Information on other ha	azards
11.2.1 Endocrine disrupting	
Not available.	
Conclusion/Summary [Pr	roduct] : 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: Ecolog	gical information
12.1 Toxicity	•

Product/ingredient name

Result

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Manium dioxide	Acute - LC50 - Marine water
	Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours]
	<u>Effect</u> : Mortality <b>Acute - LC50 - Fresh water</b> Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate <u>Age</u> : <24 hours 3 mg/l [48 hours] <u>Effect</u> : Mortality
n-Butyl acetate	<b>Acute - LC50 - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u> : 31 to 32 days; <u>Size</u> : 21.6 mm; <u>Weight</u> : 0.175 g 18000 μg/l [96 hours] <u>Effect</u> : Mortality
	<b>Acute - LC50 - Marine water</b> Crustaceans - Brine shrimp - <i>Artemia salina</i> 32 mg/l [48 hours] <u>Effect</u> : Mortality
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]
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<b>Acute - LC50</b> OECD [Fish, Acute Toxicity Test] Fish - <i>Brachydanio rerio</i> 0.9 mg/l [96 hours]
	<b>EC50</b> OECD [Alga, Growth Inhibition Test] Aquatic plants - <i>Desmodesmodus subspicatus</i> 1.68 mg/l [72 hours]
	<b>Chronic - NOEC</b> OECD [Daphnia Magna Reproduction Test] Daphnia - Daphnia 1 mg/l [21 days]
propylidynetrimethanol	<b>Acute - EC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : 1 to 3 days 13000000 μg/l [48 hours] <u>Effect</u> : Intoxication
	<b>Acute - LC50 - Marine water</b> Fish - Sheepshead minnow - <i>Cyprinodon variegatus</i> 14400000 μg/l [96 hours] <u>Effect</u> : Mortality
Conclusion/Summary [Product] : Not available	ilable.
2.2 Persistence and degradability Not available.	
Conclusion/Summary [Product] : Not avai	ilable.
2.3 Bioaccumulative potential	
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SECTION 12: Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
p-Butyl acetate	2.3	-	Low	
Solvent naphtha (petroleum),	-	10 to 2500	High	
light aromatic				
2-Methoxy-1-methylethyl	1.2	-	Low	
acetate				
Xylene	3.12	8.1 to 25.9	Low	
2-butoxyethyl acetate	1.51	-	Low	
propylidynetrimethanol	-0.47	<1	Low	

### 12.4 Mobility in soil

## Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
<b>p</b> -Butyl acetate	1.52	33.2139
2-Methoxy-1-methylethyl acetate	0.36	2.31363
2-butoxyethyl acetate	2.05	112.842
propylidynetrimethanol	1.22	16.5101

## Results of PMT and vPvM assessment

Product/ingredient name	РМТ	Р	М	Т	vPvM	vP	vM
<b>ti</b> ťanium dioxide	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Acrylic polymer	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-butoxyethyl acetate	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No
propylidynetrimethanol	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No

Mobility

: Not available.

: 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]

**Conclusion/Summary** 

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
Manium dioxide	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Acrylic polymer	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-butoxyethyl acetate	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No
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propylidynetrimethanol	No						
Fatty acids, tall-oil, compds. with oleylamine	No						
Regulation (EC) No. 1272/20	08 [CLP]						
Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
titanium dioxide	No						
n-Butyl acetate	No						
Acrylic polymer	No						
Solvent naphtha (petroleum), light aromatic	No						
2-Methoxy-1-methylethyl acetate	No						
Xylene	No						
2-butoxyethyl acetate	No						
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No						
propylidynetrimethanol Fatty acids, tall-oil, compds. with oleylamine	No No						

## **Conclusion/Summary Regulation (EC) No. 1272/2008**

: The product does not meet the criteria to be considered as a PBT or vPvB.

```
[CLP]
```

## 12.6 Endocrine disrupting properties

Not available.

```
Conclusion/Summary [Product]
```

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

### 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)	: Ø8 01 11*
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>

## **SECTION 13: Disposal considerations**

**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**

	A	DR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263		UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT		PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3		3	3	3
14.4 Packing group	111		Ш	111	111
14.5 Environmental hazards	No.		Yes.	<b>N</b> o.	<b>N</b> o.
Additional information	on		1	·	ŀ
ADR/RID		: <u>Tunne</u>	el code (D/E)		
ADN			oduct is only regulated orted in tank vessels.	as an environmentally ha	azardous substance when
		nvironmentally hazardou ortation regulations.	nmentally hazardous substance mark may appear if required by other on regulations.		
user upright and		t and secure. Ensure th	within user's premises: always transport in closed containers that are d secure. Ensure that persons transporting the product know what to do in of an accident or spillage.		
<b>14.7 Maritime transport in : </b> Not relevan bulk according to IMO instruments		levant/applicable due to	o nature of the product.		
SECTION 15: R	egulat	tory in	formation		
 15.1 Safety_health ar	- nd enviro	nmental	regulations/legislation	n specific for the substa	ance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

ż

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]
FEIDOPUR ZD55	≥90	3

#### Labelling

**Other EU regulations** 

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SECTION 15: Regula	ιτο	ry information		
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 substanc	es	(EU 2024/590)		
Not listed.				
Prior Informed Consent (P Not listed.	<u>PIC)</u>	<u>(649/2012/EU)</u>		
Persistent Organic Polluta Not listed.	<u>ints</u>	2		
Seveso Directive				
This product is controlled un	ndei	r the Seveso Directive.		
Danger criteria				
Category				
₽5c				
National regulations				
<u>Austria</u>				
VbF class		Category 3		
Limitation of the use of organic solvents	-	Permitted.		
<u>Belgium</u>				
Czech Republic				
Storage code	:	II		
<u>Denmark</u>				
Fire class	1	<mark>⊮-</mark> 1		
Executive Order No. 1795/	201	<u>15</u>		
Ingredient name			Annex I Section A	Annex I Section B
Manium dioxide Ethylbenzene			Listed Listed	-
MAL-code	:	<b>4</b> -5	•	
Protection based on MAL	:	According to the regulations on work stipulations apply to the use of personal stipulations apply to the use of pe		
		General: Gloves must be worn for all	work that may result in	soiling. Apron/
		coveralls/protective clothing must be w clothes do not adequately protect skin shield must be worn in work involving	orn when soiling is so gagainst contact with the	great that regular work e product. A face
		case, other recommended use of eye		

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: 4-5 Application: When using scraper or knife, brush, rol	ler etc. for pre- and post-
		treatments in a spray booth where the operator is out working in similar new* facilities of the combined-cabi type where the operator is working inside the spray zo booths and cabins with non-atomizing guns.	side the spray zone and when n, spray-cabin and spray-boot
		- Protective clothing must be worn.	
		When using scraper or knife, brush, roller, etc, for precabins or booths of the existing* facility type, if the op When using scraper or knife, brush, roller, etc. for precabine a closed facility, spray booth or spray cabin.	erator is inside the spray zone.
		- Air-supplied half mask, protective clothing and eye p	protection must be worn.
		When spraying in new* booths if the operator is outsid	de the spray zone.
		- Air-supplied half mask and eye protection must be v	vorn.
		When spraying in existing* spray booths, if the operat During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is wor During downtimes, cleaning and repair in closed facilit there is a risk of contact with wet paint or organic solv	the combined-cabin, spray- king inside the spray zone. ties, spray booths or cabins, if
		- Air-supplied full mask and protective clothing must b	be worn.
		During all spraying where atomisation occurs in cabin operator is inside the spray zone and during spraying or booth.	
		- Air-supplied full mask, protective clothing and hood	must be worn.
		<b>Drying:</b> Items for drying/drying ovens that are temporack trolleys, etc, must be equipped with a mechanical fumes from wet items from passing through workers'	al exhaust system to prevent
		<b>Polishing:</b> When polishing treated surfaces, a mask When machine grinding, eye protection must be worn 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 reg	
List of undesirable substances	:	Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substa by Danish working environment legislation on cancer	
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7	:	P-Butyl acetate Solvent naphtha (petroleum), light aromatic 2-Methoxy-1-methylethyl acetate Xylene 2-butoxyethyl acetate	RG 84 RG 84 RG 84 RG 4bis, RG 84 RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	
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#### <u>Germany</u>

### Storage class (TRGS 510) : 3

## Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

value in waste water.

## Danger criteria

Category	у	Reference number
P5c		1.2.5.3

## Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	63.7
5.2.2 [11]	Dusty inorganic substances	0.01
5.2.5	Organic substances	36.2
5.2.5 [I]	Organic substances	23
5.2.7.2	Poorly degradable, easily accumulating and highly toxic organic substances	0.084
AOX	The product contains organically bound halogens and can contribute to	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	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Solvent naphtha (petroleum), light arom. xylene hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, containing <2% of aromatics, < 0,1% of benzene, < 1% of n- hexane and < 0,5 % of aromatic hydrocarbons	Listed - Listed	Listed - Listed	-	- Development 2 -	-
Water Discharge Policy (ABM) <u>Norway</u>	environm	ent (carcinogeni	ubstances with haza city/ mutagenicity/ rep econtamination effort	protoxicity/ bioacum	
Sweden					
Flammable liquid class (SRVFS 2005:10)	<b>s</b> : 2a				
Switzerland					
VOC content	: VOC (w/v	v): 31.5%			
nternational regulations	<u>s</u>				
hemical Weapon Conv	vention List Sche	edules I, II & III C	<u>Chemicals</u>		
Not listed.					
Iontreal Protocol					
Not listed.					
tockholm Convention	on Persistent Or	ganic Pollutant	<u>s</u>		

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

## **SECTION 16: Other information**

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

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

Classification	Justification
Fam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H226Flammable liquid and vapour.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H361fSuspected of damaging fertility.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.		
H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H361fSuspected of damaging fertility.H361fdSuspected of damaging fertility.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H226	Flammable liquid and vapour.
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<ul> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H361f	Suspected of damaging fertility.
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H412 Harmful to aquatic life with long lasting effects.	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.	H412	Harmful to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

## **SECTION 16: Other information**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 27/05/2025
revision	
Date of previous issue	: 21/03/2024
Version	: 4

#### 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.

Date of issue/Date of revision FEIDOPUR ZD55 - All variants : 27/05/2025 Date of previous issue