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

# **SAFETY DATA SHEET**



ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

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

## 1.1 Product identifier

Product name : ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

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

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

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

#### **National contact**

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

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number: In an emergency, call 112

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 STOT RE 2, H373

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

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

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

#### 2.2 Label elements

Hazard pictograms



Signal word	ning	
Hazard statements	<ul> <li>6 - Flammable liquid and vapour.</li> <li>5 - Causes skin irritation.</li> <li>9 - Causes serious eye irritation.</li> <li>6 - May cause drowsiness or dizziness.</li> <li>8 - May cause damage to organs through prolong</li> </ul>	ged or repeated exposure.
Precautionary statements		
Prevention	) - Wear protective gloves. Wear eye or face pro ) - Keep away from heat, hot surfaces, sparks, o ces. No smoking. ) - Do not breathe vapour.	

Date of issue/Date of revision	: 13/03/2024	Date of previous issue	: No previous validation	Version	:1	1/39
ALPOCRYL PERLSTRUKTUR 537	riants		Label No	:68358	3	

## **SECTION 2: Hazards identification**

SECTION 2. Hazarus	it	
Response	1	P314 - Get medical advice/attention if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate and Xylene
Supplemental label elements	:	Contains Methyl methacrylate. May produce an allergic reaction. 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 not result in classification	1	None known.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

Label No :68358

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

SECTION 3: COM	Josition/informat	ion on	ingrealents		
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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.
4.2 Most important symptor	ns and effects, both acute and delayed

Over-exposure signs/sym		notomo movinaludo tho	following:		
Eye contact	pain or irrita watering redness	nptoms may include the tion	lonowing.		
Date of issue/Date of revision	: 13/03/2024	Date of previous issue	: No previous validation	Version	:
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SECTION 4: First	
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	nediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

5.1 Extinguishing media		
Suitable extinguishing media	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising	m the substance or mixture	
Hazards from the substance or mixture	Flammable liquid and vapour. Runoff to sewer may create fire or explosion haza In a fire or if heated, a pressure increase will occur and the container may burst, the risk of a subsequent explosion.	
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incide 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 chemical incidents.	

## SECTION 6: Accidental release measures

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

Date of issue/Date of revision	: 13/03/2024	Date of previous issue	: No previous validation	Version	:1	4/39
ALPOCRYL PERLSTRUKTUR 537	riants		Label No :	68358	3	

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

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

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

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

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

#### 7.1 Precautions for safe handling

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

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

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

#### Seveso Directive - Reporting thresholds

# Danger criteriaCategoryNotification and MAPP<br/>thresholdSafety report thresholdP5c5000 tonne50000 tonne

#### 7.3 Specific end use(s) Recommendations

: Not available.

# Industrial sector specific solutions

: Not available.

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
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m <sup>3</sup> 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
<b>,</b>	(all isomers)]
	PEAK: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
Ethylhonzono	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
Ethylbenzene	
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m <sup>3</sup> 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m <sup>3</sup> , 8 times per shift, 5 minutes.
2-butoxyethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 270 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
Methyl methacrylate	Regulation on Limit Values - MAC (Austria, 4/2021). Skin
	sensitiser.
	TWA: 50 ppm 8 hours.
	TWA: 210 mg/m <sup>3</sup> 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 420 mg/m <sup>3</sup> , 8 times per shift, 5 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
(yiono	skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 87 mg/m <sup>3</sup> 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	Limit values (Belgium, 5/2021).
	TWA: 50 ppm 8 hours.
	TWA: 208 mg/m <sup>3</sup> 8 hours.
	STEL: 416 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.

n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).				
	Limit value 8 hours: 241 mg/m <sup>3</sup> 8 hours.				
	Limit value 15 min: 723 mg/m <sup>3</sup> 15 minutes.				
	Limit value 15 min: 150 ppm 15 minutes.				
	Limit value 8 hours: 50 ppm 8 hours.				
Xylene	Ministry of Labour and Social Policy and the Ministry of				
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene				
	(mixture of isomers), pure] Absorbed through skin.				
	Limit value 8 hours: 221 mg/m <sup>3</sup> 8 hours.				
	Limit value 15 min: 442 mg/m <sup>3</sup> 15 minutes.				
	Limit value 15 min: 100 ppm 15 minutes.				
	Limit value 8 hours: 50 ppm 8 hours.				
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of				
EarlyisonZono	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed				
	through skin.				
	Limit value 8 hours: 435 mg/m <sup>3</sup> 8 hours.				
	Limit value 15 min: 545 mg/m <sup>3</sup> 15 minutes.				
2-butoxyethyl acetate	Ministry of Labour and Social Policy and the Ministry of				
2-buloxyelinyi acelale					
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed				
	through skin.				
	Limit value 8 hours: 133 mg/m <sup>3</sup> 8 hours.				
	Limit value 15 min: 333 mg/m <sup>3</sup> 15 minutes.				
	Limit value 8 hours: 20 ppm 8 hours.				
	Limit value 15 min: 50 ppm 15 minutes.				
Methyl methacrylate	Ministry of Labour and Social Policy and the Ministry of				
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).				
	Limit value 8 hours: 50 ppm 8 hours.				
	Limit value 15 min: 100 ppm 15 minutes.				
propylidynetrimethanol	Ministry of Labour and Social Policy and the Ministry of				
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).				
	Limit value 8 hours: 50 mg/m <sup>3</sup> 8 hours.				
n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/				
,	STELV (Croatia, 1/2021).				
	STELV: 723 mg/m <sup>3</sup> 15 minutes.				
	STELV: 150 ppm 15 minutes.				
	ELV: 241 mg/m <sup>3</sup> 8 hours.				
	ELV: 50 ppm 8 hours.				
Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/				
	STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed				
	through skin.				
	STELV: 442 mg/m <sup>3</sup> 15 minutes.				
	STELV: 100 ppm 15 minutes.				
	ELV: 221 mg/m <sup>3</sup> 8 hours.				
	ELV: 50 ppm 8 hours.				
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/				
	STELV (Croatia, 1/2021). Absorbed through skin.				
	STELV: 884 mg/m <sup>3</sup> 15 minutes.				
	STELV: 864 fig/in 15 minutes.				
	ELV: 442 mg/m <sup>3</sup> 8 hours.				
	ELV: 442 mg/m² 8 hours.				
2 butoxyetbyl acotata					
2-butoxyethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/				
	STELV (Croatia, 1/2021). Absorbed through skin.				
	STELV: 333 mg/m <sup>3</sup> 15 minutes.				
	STELV: 50 ppm 15 minutes.				
	ELV: 133 mg/m <sup>3</sup> 8 hours.				
Mothed mother and data	ELV: 20 ppm 8 hours.				
Methyl methacrylate	Ministry of Economy, Labour and Entrepreneurship ELV/				
	STELV (Croatia, 1/2021). Absorbed through skin. Skin				
	sensitiser.				
	STELV: 100 ppm 15 minutes.				
	ELV: 50 ppm 8 hours.				
Date of issue/Date of revision	: 13/03/2024 Date of previous issue : No previous validation Version : 1 7/39				

n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
(ylene	Department of labour inspection (Cyprus, 7/2021). [Xylene,
	mixed isomers] Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
thylbenzene	Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
-butoxyethyl acetate	Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
1ethyl methacrylate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
-	Republic, 10/2022).
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	STEL: 149.661 ppm 15 minutes.
	TWA: 49.887 ppm 8 hours.
(ylene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). [xylene, technical mixture of isomers and
	all isomers] Absorbed through skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 400 mg/m <sup>3</sup> 15 minutes.
	STEL: 90.8 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m <sup>3</sup> 15 minutes.
	STEL: 113.5 ppm 15 minutes.
-butoxyethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 130 mg/m <sup>3</sup> 8 hours.
	TWA: 19.5 ppm 8 hours.
	STEL: 300 mg/m <sup>3</sup> 15 minutes.
	STEL: 45 ppm 15 minutes.
Methyl methacrylate	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Skin sensitiser.
	TWA: 50 mg/m <sup>3</sup> 8 hours.
	TWA: 30 mg/m 8 hours.
	STEL: 150 mg/m <sup>3</sup> 15 minutes.
	STEL: 36 ppm 15 minutes.
	STEL. 30 ppm 15 minutes.

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

Label No :68358

n-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
Xylene	Working Environment Authority (Denmark, 6/2022). [Xylenes,
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m <sup>3</sup> 8 hours.
	STEL: 434 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
2-butoxyethyl acetate	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 134 mg/m <sup>3</sup> 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	STEL: 50 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 102 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
Xylene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 450 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours.
Ethylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
2-butoxyethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 133 mg/m³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	STEL: 50 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Skin sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
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ate of issue/Date of revision : 1	13/03/2024 Date of previous issue : No previous validation Version : 1 9/39

#### SECTION 8: Exposure controls/personal protection n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. **Xylene** EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. 2-butoxyethyl acetate EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 133 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m<sup>3</sup> 15 minutes. Methyl methacrylate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Institute of Occupational Health, Ministry of Social Affairs n-Butyl acetate (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m<sup>3</sup> 15 minutes. **Xylene** Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m<sup>3</sup> 15 minutes. TWA: 220 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 880 mg/m<sup>3</sup> 15 minutes. Institute of Occupational Health, Ministry of Social Affairs 2-butoxyethyl acetate (Finland, 10/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 130 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 330 mg/m<sup>3</sup> 15 minutes. Methyl methacrylate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 42 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 210 mg/m<sup>3</sup> 15 minutes. Date of issue/Date of revision Version :1 10/39 : 13/03/2024 Date of previous issue

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	n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours.
		TWA: 30 ppm 8 hours. TWA: 241 mg/m <sup>3</sup> 8 hours.
		STEL: 150 ppm 15 minutes.
		STEL: 723 mg/m <sup>3</sup> 15 minutes.
	Xylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit
		values (article R. 4412-149 of the Labor Code)
		STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.
		TWA: 221 mg/m <sup>3</sup> 8 hours.
		TWA: 50 ppm 8 hours.
	Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
		Notes: Binding regulatory limit values (article R. 4412-149 of
		the Labor Code)
		TWA: 20 ppm 8 hours. TWA: 88.4 mg/m <sup>3</sup> 8 hours.
		STEL: 442 mg/m <sup>3</sup> 15 minutes.
		STEL: 100 ppm 15 minutes.
	2-butoxyethyl acetate	Ministry of Labor (France, 10/2022). Absorbed through skin.
		Notes: Binding regulatory limit values (article R. 4412-149 of
		the Labor Code)
		STEL: 333 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.
		TWA: 66.5 mg/m <sup>3</sup> 8 hours.
		TWA: 10 ppm 8 hours.
	Methyl methacrylate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
		TWA: 50 ppm 8 hours.
		TWA: 205 mg/m <sup>3</sup> 8 hours.
		STEL: 100 ppm 15 minutes.
	n Dutul contata	STEL: 410 mg/m <sup>3</sup> 15 minutes.
	n-Butyl acetate	DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours.
		PEAK: 200 ppm, 4 times per shift, 15 minutes.
		TWA: 480 mg/m <sup>3</sup> 8 hours.
		PEAK: 960 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
		TRGS 900 OEL (Germany, 6/2022).
		TWA: 300 mg/m <sup>3</sup> 8 hours. TWA: 62 ppm 8 hours.
		PEAK: 600 mg/m <sup>3</sup> 15 minutes.
		PEAK: 124 ppm 15 minutes.
	Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through
		skin.
		TWA: 220 mg/m <sup>3</sup> 8 hours.
		PEAK: 440 mg/m <sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours.
		PEAK: 100 ppm 15 minutes.
		DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]
		Absorbed through skin.
		TWA: 50 ppm 8 hours.
		PEAK: 100 ppm, 4 times per shift, 15 minutes.
		TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes.
	Ethylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
		TWA: 88 mg/m <sup>3</sup> 8 hours.
		PEAK: 176 mg/m <sup>3</sup> 15 minutes.
		TWA: 20 ppm 8 hours.
		PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through
		skin.
		PEAK: 40 ppm, 4 times per shift, 15 minutes.
		PEAK: 176 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
D	ate of issue/Date of revision : 13/03/2024	Date of previous issue         : No previous validation         Version         : 1         11/39

	TWA: 88 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
2-butoxyethyl acetate	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: $65 \text{ mg/m}^3 8 \text{ hours}$ .
	PEAK: 130 mg/m <sup>3</sup> 15 minutes.
	TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 66 mg/m <sup>3</sup> 8 hours.
	PEAK: 132 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
lethyl methacrylate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 210 mg/m <sup>3</sup> 8 hours.
	PEAK: 420 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 50 ml/m <sup>3</sup> 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 210 mg/m <sup>3</sup> 8 hours.
	PEAK: 420 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	PEAK: 100 ml/m <sup>3</sup> , 4 times per shift, 15 minutes.
-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
,.	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
ylene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
thylbenzene	STEL: 650 mg/m <sup>3</sup> 15 minutes. <b>Presidential Decree 307/1986: Occupational exposure limit</b>
linyibenzene	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m <sup>3</sup> 15 minutes.
-butoxyethyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 20 ppm 8 hours.
	TWA: 135 mg/m³ 8 hours.
	STEL: 40 ppm 15 minutes.
	STEL: 270 mg/m <sup>3</sup> 15 minutes.
lethyl methacrylate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitise
	Inhalation sensitiser.
	TWA: 241 mg/m <sup>3</sup> 8 hours. PEAK: 723 mg/m <sup>3</sup> 15 minutes.
	PEAK: 723 mg/m <sup>o</sup> 15 minutes. PEAK: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixtu
	of isomers] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	PEAK: 442 mg/m <sup>3</sup> 15 minutes.
	PEAK: 100 ppm 15 minutes.

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

Version :1 12/39 Label No :68358

	TWA: 50 ppm 8 hours.			
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed			
	through skin. Skin sensitiser. Inhalation sensitiser.			
	TWA: 442 mg/m <sup>3</sup> 8 hours.			
	PEAK: 884 mg/m <sup>3</sup> 15 minutes.			
	PEAK: 200 ppm 15 minutes.			
2 butowetby accepted	TWA: 100 ppm 8 hours.			
2-butoxyethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin.			
	TWA: 133 mg/m <sup>3</sup> 8 hours.			
	PEAK: 333 mg/m <sup>3</sup> 15 minutes.			
	PEAK: 50 ppm 15 minutes.			
	TWA: 20 ppm 8 hours.			
Methyl methacrylate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed			
, ,	through skin. Skin sensitiser. Inhalation sensitiser.			
	TWA: 208 mg/m <sup>3</sup> 8 hours.			
	PEAK: 415 mg/m <sup>3</sup> 15 minutes.			
	PEAK: 100 ppm 15 minutes.			
	TWA: 50 ppm 8 hours.			
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).			
	[butyl acetate, all isomers]			
	TWA: 241 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			
	STEL: 723 mg/m³ 15 minutes.			
Videne	STEL: 150 ppm 15 minutes.			
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin.			
	STEL: 442 mg/m <sup>3</sup> 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 109 mg/m <sup>3</sup> 8 hours.			
	TWA: 25 ppm 8 hours.			
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).			
,	Absorbed through skin.			
	STEL: 884 mg/m <sup>3</sup> 15 minutes.			
	STEL: 200 ppm 15 minutes.			
	TWA: 200 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			
2-butoxyethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).			
	Absorbed through skin.			
	STEL: 333 mg/m <sup>3</sup> 15 minutes.			
	STEL: 50 ppm 15 minutes. TWA: 133 mg/m³ 8 hours.			
	TWA: 135 mg/m 6 hours.			
Methyl methacrylate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).			
······································	Absorbed through skin. Skin sensitiser.			
	STEL: 100 ppm 15 minutes.			
	TWA: 50 ppm 8 hours.			
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational			
	Exposure Limit Values			
	OELV-8hr: 50 ppm 8 hours.			
	OELV-8hr: 241 mg/m <sup>3</sup> 8 hours.			
	OELV-15min: 150 ppm 15 minutes.			
	OELV-15min: 723 mg/m <sup>3</sup> 15 minutes.			
Xylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed			
	through skin. Notes: EU derived Occupational Exposure Limit			
	Values			
	OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m <sup>3</sup> 8 hours.			
	OELV-011.221 fight 8 hours. OELV-15min: 100 ppm 15 minutes.			
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.			
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU			
	derived Occupational Exposure Limit Values			
	OELV-8hr: 100 ppm 8 hours.			
	OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.			
Date of issue/Date of revision : 13/03/2024	Date of previous issue : No previous validation Version : 1 13/39			

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

: No previous validation

Label No :68358

•	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 133 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 50 ppm 15 minutes. OELV-15min: 333 mg/m³ 15 minutes.
1ethyl methacrylate	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-15min: 100 ppm 15 minutes.
-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
ylene	Legislative Decree No. 819/2008. Title IX. Protection from
yione	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m <sup>3</sup> 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m <sup>3</sup> 15 minutes.
thylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin. 8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m <sup>3</sup> 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 20 ppm 8 hours.
	8 hours: 133 mg/m <sup>3</sup> 8 hours.
	Short Term: 50 ppm 15 minutes.
Acthyl mothachylata	Short Term: 333 mg/m <sup>3</sup> 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from
Methyl methacrylate	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Short Term: 100 ppm 15 minutes.
	8 hours: 50 ppm 8 hours.
-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
(ylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021)
	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
thylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
-	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
-butoxyethyl acetate	
2-butoxyethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 133 mg/m <sup>3</sup> 8 hours.

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

	TWA: 20 ppm 8 hours.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 10 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
Xylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	[xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
2-butoxyethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 70 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 140 mg/m <sup>3</sup> 15 minutes.
Mathud mathe and data	STEL: 20 ppm 15 minutes.
Methyl methacrylate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skir
	sensitiser. Inhalation sensitiser.
	TWA: 208 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 416 mg/m <sup>3</sup> 15 minutes.
propylidynetrimethanol	STEL: 100 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
орушаупентпентапог	CEIL: 5 ppm
n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
Xylene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). [xylenes, mixed isomers, pure]
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 333 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
-	(Luxembourg, 3/2021).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.

n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative				
	occupational exposure limit values				
	STEL: 150 ppm 15 minutes.				
	STEL: 723 mg/m <sup>3</sup> 15 minutes.				
	TWA: 241 mg/m <sup>3</sup> 8 hours.				
	TWA: 50 ppm 8 hours.				
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]				
	Absorbed through skin. Notes: list of indicative occupational				
	exposure limit values				
	TWA: 50 ppm 8 hours.				
	TWA: 221 mg/m <sup>3</sup> 8 hours.				
	STEL: 100 ppm 15 minutes.				
	STEL: 442 mg/m <sup>3</sup> 15 minutes.				
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list				
	of indicative occupational exposure limit values				
	TWA: 100 ppm 8 hours.				
	TWA: 442 mg/m <sup>3</sup> 8 hours.				
	STEL: 200 ppm 15 minutes.				
	STEL: 884 mg/m <sup>3</sup> 15 minutes.				
2-butoxyethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list				
	of indicative occupational exposure limit values				
	TWA: 20 ppm 8 hours.				
	TWA: 133 mg/m <sup>3</sup> 8 hours.				
	STEL: 50 ppm 15 minutes.				
	STEL: 333 mg/m <sup>3</sup> 15 minutes.				
Methyl methacrylate	EU OEL (Europe, 1/2022). Notes: list of indicative				
	occupational exposure limit values				
	TWA: 50 ppm 8 hours.				
	STEL: 100 ppm 15 minutes.				
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values				
,	(Netherlands, 12/2022).				
	OEL, 8-h TWA: 241 mg/m <sup>3</sup> 8 hours.				
	STEL,15-min: 723 mg/m <sup>3</sup> 15 minutes.				
	STEL,15-min: 150 ppm 15 minutes.				
	OEL, 8-h TWA: 50 ppm 8 hours.				
Xylene	Ministry of Social Affairs and Employment, Legal limit values				
	(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed				
	through skin.				
	OEL, 8-h TWA: 210 mg/m <sup>3</sup> 8 hours.				
	STEL,15-min: 442 mg/m <sup>3</sup> 15 minutes.				
	STEL,15-min: 100 ppm 15 minutes.				
	OEL, 8-h TWA: 47.5 ppm 8 hours.				
Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values				
	(Netherlands, 12/2022). Absorbed through skin.				
	OEL, 8-h TWA: 215 mg/m <sup>3</sup> 8 hours.				
	STEL,15-min: 430 mg/m $^3$ 15 minutes.				
	STEL,15-min: 97.3 ppm 15 minutes.				
	OEL, 8-h TWA: 48.6 ppm 8 hours.				
2-butoxyethyl acetate	Ministry of Social Affairs and Employment, Legal limit values				
	(Netherlands, 12/2022). Absorbed through skin.				
	OEL, 8-h TWA: 135 mg/m <sup>3</sup> 8 hours.				
	STEL,15-min: 333 mg/m <sup>3</sup> 15 minutes.				
	OEL, 8-h TWA: 20.3 ppm 8 hours.				
	STEL,15-min: 50 ppm 15 minutes.				
Methyl methacrylate	Ministry of Social Affairs and Employment, Legal limit values				
	(Netherlands, 12/2022).				
	OEL, 8-h TWA: 205 mg/m <sup>3</sup> 8 hours.				
	STEL, 15-min: 410 mg/m $^3$ 15 minutes.				
	STEL,15-min: 100 ppm 15 minutes.				
	OEL, 8-h TWA: 50 ppm 8 hours.				
Date of issue/Date of revision : 13	V03/2024 Date of previous issue : No previous validation Version : 1 16/39				

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

SECTION 8: Exposure controls/personal protection						
n-Butyl acetate		FOR-2011-12-06-13 STEL: 723 mg/m <sup>3</sup> 1	<b>58 (Norway, 12/2022).</b> 5 minutes.			
		STEL: 150 ppm 15				
			58 (Norway, 12/2022).  N	Notes: indicative		
		limit value				
		TWA: 241 mg/m <sup>3</sup> 8				
Xylene		TWA: 50 ppm 8 hou	58 (Norway, 12/2022). [X	Yvlene all isomers]		
Хуюне			skin. Notes: indicative			
		TWA: 25 ppm 8 hou				
		TWA: 108 mg/m <sup>3</sup> 8 hours.				
Ethylbenzene			58 (Norway, 12/2022). A	-		
		-	Notes: indicative limit v	value		
		TWA: 5 ppm 8 hour				
2 hutovy othyl agetete		TWA: 20 mg/m <sup>3</sup> 8 h		beerbed through		
2-butoxyethyl acetate		skin. Notes: indica	58 (Norway, 12/2022). A tiyo limit yaluo	usorbed through		
		TWA: 10 ppm 8 hou				
		TWA: 65 mg/m <sup>3</sup> 8 h				
Methyl methacrylate			58 (Norway, 12/2022). S	kin sensitiser.		
, , , , , , , , , , , , , , , , , , ,		Notes: indicative lir				
		TWA: 25 ppm 8 hou	urs.			
		TWA: 100 mg/m <sup>3</sup> 8				
			58 (Norway, 12/2022). S	skin sensitiser.		
		STEL: 400 mg/m <sup>3</sup> 1				
		STEL: 100 ppm 15				
n-Butyl acetate			linister of Family, Labo			
			l, regarding the highest I values of agents harm			
			Journal of Laws 2021,			
		2/2021).				
		TWA: 240 mg/m <sup>3</sup> 8	hours.			
	STEL: 720 mg/m <sup>3</sup> 15 minutes.					
Xylene		Regulation of the Minister of Family, Labor and Social Policy				
		of 18 February 2021, regarding the highest permissible				
		concentrations and values of agents harmful to health in the				
			Journal of Laws 2021,			
			nixed isomers (1,2-, 1,3-	-, 1,4-)] Absorbed		
		through skin. TWA: 100 mg/m³ 8	houro			
		STEL: 200 mg/m <sup>3</sup> 1				
Ethylbenzene				r and Social Policy		
,		Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible				
			concentrations and values of agents harmful to health in the			
		work environment (Journal of Laws 2021, item 325) (Poland,				
		2/2021). Absorbed t	-			
		TWA: 200 mg/m <sup>3</sup> 8				
	STEL: 400 mg/m <sup>3</sup> 15 minutes.					
2-butoxyethyl acetate		Regulation of the Minister of Family, Labor and Social Policy				
		of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the				
			Journal of Laws 2021,			
		2/2021). Absorbed t				
		TWA: 100 mg/m <sup>3</sup> 8				
	STEL: 300 mg/m <sup>3</sup> 15 minutes.					
Methyl methacrylate		Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the				
			-			
		work environment ( 2/2021).	Journal of Laws 2021,	item 325) (Poland,		
		TWA: 100 mg/m <sup>3</sup> 8	hours			
		STEL: 300 mg/m <sup>3</sup> 1				
Date of issue/Date of revision	: 13/03/2024	Date of previous issue	: No previous validation	Version :1 17/39		

n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]
	TWA: 100 ppm 8 hours.
	STEL: 150 ppm 15 minutes.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
2-butoxyethyl acetate	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 20 ppm 8 hours.
Methyl methacrylate	Portuguese Institute of Quality (Portugal, 11/2014). Skin
	sensitiser.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 241 mg/m <sup>3</sup> 8 hours. VLA: 50 ppm 8 hours.
	Short term: 723 mg/m <sup>3</sup> 15 minutes.
	Short term: 150 ppm 15 minutes.
Xylene	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [Xylene] Absorbed through skin.
	VLA: 221 mg/m <sup>3</sup> 8 hours.
	VLA: 50 ppm 8 hours. Short term: 442 mg/m <sup>3</sup> 15 minutes.
	Short term: 100 ppm 15 minutes.
Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and
-	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 442 mg/m <sup>3</sup> 8 hours.
	VLA: 100 ppm 8 hours.
	Short term: 884 mg/m <sup>3</sup> 15 minutes. Short term: 200 ppm 15 minutes.
2-butoxyethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 133 mg/m <sup>3</sup> 8 hours.
	VLA: 20 ppm 8 hours.
	Short term: 333 mg/m <sup>3</sup> 15 minutes.
Mothyl mothachilata	Short term: 50 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and
Methyl methacrylate	additions (Romania, 3/2021).
	VLA: 205 mg/m <sup>3</sup> 8 hours.
	Short term: 410 mg/m <sup>3</sup> 15 minutes.
	VLA: 50 ppm 8 hours.
	Short term: 100 ppm 15 minutes.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[Butyl acetates]
	TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m <sup>3</sup> , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[xylene, mixed isomers] Absorbed through skin.
	TWA: 221 mg/m <sup>3</sup> , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m <sup>3</sup> , (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 442 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
2 butowyothyl acatata	STEL: 200 ppm 15 minutes.
2-butoxyethyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.

#### SECTION 8: Exposure controls/personal protection TWA: 133 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 333 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. Methyl methacrylate Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin sensitiser. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. n-Butyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. **Xylene** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 442 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Ethylbenzene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. 2-butoxyethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 133 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. KTV: 333 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. Methyl methacrylate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 210 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 420 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. National institute of occupational safety and health (Spain, n-Butyl acetate 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. **Xylene** National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, Ethylbenzene 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, 2-butoxyethyl acetate 4/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 133 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes.

Date of issue/Date of revision : 13/03/2024 Date of previous issue : No previous validation

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

#### SECTION 8: Exposure controls/personal protection STEL: 333 mg/m<sup>3</sup> 15 minutes. Methyl methacrylate National institute of occupational safety and health (Spain, 4/2022). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. **Xylene** Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Ethylbenzene 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. 2-butoxyethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 70 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m<sup>3</sup> 15 minutes. Methyl methacrylate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser. TWA: 50 ppm 8 hours. TWA: 200 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 400 mg/m<sup>3</sup> 15 minutes. propylidynetrimethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 5 mg/m<sup>3</sup> 8 hours. n-Butyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m<sup>3</sup> 15 minutes. **Xylene** SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m<sup>3</sup> 15 minutes. Ethylbenzene SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes.

2-butoxyethyl acetate

Methyl methacrylate

Date of issue/Date of revision

: 13/03/2024

Date of previous issue

STEL: 220 mg/m3 15 minutes.

TWA: 50 ppm 8 hours. TWA: 210 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 420 mg/m<sup>3</sup> 15 minutes.

: No previous validation

SUVA (Switzerland, 1/2023). Absorbed through skin.

TWA: 10 ppm 8 hours. Form: vapour and aerosols TWA: 66 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols STEL: 20 ppm 15 minutes. Form: vapour and aerosols STEL: 132 mg/m<sup>3</sup> 15 minutes. Form: vapour and aerosols

SUVA (Switzerland, 1/2023). Skin sensitiser.

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

20/39

n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 332 mg/m <sup>3</sup> 15 minutes.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
Methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
5	STEL: 416 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
loidene	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Phosphoric acid, solution	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2 mg/m <sup>3</sup> 15 minutes.
	TWA: 1 mg/m <sup>3</sup> 8 hours.
Formoldobydo	
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
1 Mathavy 2 propagal	TWA: 2.5 mg/m <sup>3</sup> 8 hours.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
ethyl acrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 42 mg/m <sup>3</sup> 15 minutes.
	STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 21 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

#### SECTION 8: Exposure controls/personal protection **Product/ingredient name Exposure indices** VGU BEI (Austria, 9/2020) [xvlenes] **Xvlene** 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. Ministry of Labour and Social Policy and the Ministry of Ethylbenzene Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid - in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift. **Xylene** Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. No exposure indices known. **Xylene** Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Government regulation of Czech Republic Limit Values of Ethylbenzene **Biological Exposure Tests (Czech Republic, 9/2015)** Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift. Government regulation of Czech Republic Limit Values of 2-butoxyethyl acetate **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.

Date of issue/Date of revision

: 13/03/2024 Date of previous issue

Xylene	Institute of Occupational Health, Ministry of Social Affairs
,	(Finland, 9/2020) [Xylene]
	BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)
	BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
No exposure indices known.	
Xylene	<ul> <li>DFG BEI-values list (Germany, 7/2022) [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, 2/2022) [Xylene (all isomers)]</li> <li>BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</li> </ul>
Ethylbenzene	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
2-butoxyethyl acetate	<ul> <li>DFG BEI-values list (Germany, 7/2022) 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, 2/2022)</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.	
Xylene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [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.
Ethylbenzene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b> BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.
No exposure indices known.	
Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	<b>NAOSH (Ireland, 1/2011)</b> BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air].

	Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitativ test is not practical; or as a confirmatory test if the quantitative tes is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
' No exposure indices known.	
No exposure indices known.	
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.
Ethylbenzene	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxyli acid [in urine]. Sampling time: end of shift.
Xylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end c shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time end of the week.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work sh BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [ urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine] Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift

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	long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
Xylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
2-butoxyethyl acetate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) 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.
Xylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
No exposure indices known.	
Xylene	<b>SUVA (Switzerland, 1/2023) [Xylene, all isomers]</b> BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene	<b>SUVA (Switzerland, 1/2023)</b> BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
2-butoxyethyl acetate	<b>SUVA (Switzerland, 1/2023)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
Xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

procedures

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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Long term	35.7 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Short term	300 mg/m³	General	Local
		Inhalation	200 mm m /mm 3	population	Curtania
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term	300 mg/m <sup>3</sup>	population Workers	Local
	DNEL	Inhalation	S00 mg/m	VUIKEIS	LUCAI
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
		Inhalation	200 mg/m		
	DNEL	Short term	600 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		-	bw/day	population	-
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	48 mg/m³	Workers	Systemic
(		Inhalation	05.0	0	1 1
(ylene	DNEL	Long term	65.3 mg/m <sup>3</sup>		Local
	DNEL	Inhalation Short term	$260 \text{ mg/m}^3$	population General	Local
	DNEL	Inhalation	260 mg/m <sup>3</sup>	population	Local
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
	DINCL	Inhalation	200 mg/m	population	Oysternic
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day	14/	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	110	Workers.	
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	442 mg/m <sup>3</sup>	Workers	Systemic
	DINEL	Inhalation	442 mg/m	VVUINCIS	Systemic
	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
thylhenzene			L LO HIY/NY	Contorai	Joystoniio
thylbenzene		5	bw/day	population	

Date of issue/Date of revision ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

	DNEL	Long term	15 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation	15 mg/m²	General population	Systemic
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			- ,
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
2-butoxyethyl acetate	DNEL	Long term Oral	8.6 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day 36 mg/kg bw/day	population General	Systemic
	DNEL	Short term Dermal	72 mg/kg	population General	Systemic
	DNEL	Long term	bw/day 80 mg/m³	population General	Systemic
	DNEL	Inhalation Long term Dermal	102 mg/kg	population General	Systemic
			bw/day	population	- Systemic
	DNEL	Short term Dermal	120 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	133 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	169 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	200 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	333 mg/m³	Workers	Local
Methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg	General	Systemic
		-	bw/day	population	
	DNEL	Short term	208 mg/m <sup>3</sup>	General	Local
	DNE	Inhalation	440	population	1 1
	DNEL	Short term Inhalation	416 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>		Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	population General	Local
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	population Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	104 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	348.4 mg/ m³	Workers	Systemic
propylidynetrimethanol	DNEL	Inhalation Long term Oral	0.34 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.34 mg/ kg bw/day	population General population	Systemic
	DNEL	Long term Inhalation	0.58 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.94 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.3 mg/m <sup>3</sup>	Workers	Systemic
			1		

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

Label No :68358

#### **PNECs**

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
Environmental expective	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

and the matter of the second	an	u chemical propert	162		
<u>Appearance</u>					
Physical state	: 1	Liquid.			
Colour	: `	Various			
Odour	: 3	Slight			
Odour threshold	: 1	Not available.			
Melting point/freezing point	: 1	Not available.			
Initial boiling point and boiling range	:				
Ingredient name		°C	°F	Method	
n-Butyl acetate		126	258.8	OECD 103	
Ethylbenzene		136.1	277	OECD 104	
Flammability	:	Not available.	ŀ	ł	
Lower and upper explosion limit		Lower: 0.8% Upper: 7.6%			
Flash point	:	Closed cup: 27°C (80	D.6°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-butoxyethyl acetate		340	644		
n-Butyl acetate		415	779	EU A.15	
Decomposition temperature	:	Not available.			
рН	: 1	Not applicable.			
Viscosity	: 1	Not available.			
Solubility(ies)	:				
Not available.					
Solubility in water	:	Not available.			
Partition coefficient: n-octanol/ water	:	Not applicable.			

#### Vapour pressure

	Vap	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Ethylbenzene	9.30076	1.2					
Relative density	: Not a	vailable.					
Donoity	• 12 a	/cm <sup>3</sup>					

Density	÷	1.2 g/cm³
Vapour density	÷	Not available.
Explosive properties	÷	Not available.
Oxidising properties	÷	Not available.
Particle characteristics		
Median particle size	÷	Not applicable.

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

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
-	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
Methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-

Acute toxicity estimates

Route	ATE value
	7653.32 mg/kg 62.27 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
·	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
,	Skin - Mild irritant	Rabbit	-	24 hours 15	-
ate of issue/Date of revision	: 13/03/2024 Date of previo	I us issue : No	previous va	l alidation Versi	ion:1 30/39

ALPOCRYL PERLSTRUKTUR 5371-30 - All variants

Label No :68358

2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500	-	
	Skin - Mild irritant	Rabbit	-	mg 500 mg	-	
Conclusion/Summary	: Causes skin irritation.				•	
ensitisation						
Conclusion/Summary	: Based on available data	a, the classificatior	n criteria a	are not met.		
lutagenicity						
Conclusion/Summary	: Based on available data	a, the classification	n criteria a	are not met.		
Carcinogenicity						

<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	
Conclusion/Summary	: Based on available data, the classification criteria are not met.

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

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

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

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	- 5 5	oral, inhalation	-
Ethylbenzene		oral, inhalation	hearing organs

#### **Aspiration hazard**

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

#### Information on likely routes : Not available.

of exposure

## Potential acute health effects

Fotential acute fieatti	
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
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## **SECTION 11: Toxicological information**

Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
-	to offects as well as chronic offects from short and long form even

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

Delayed and minicalate ener	do wen do enrene enceto nem shert and long term expedence	
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>.ts</u>	
Not available.		
<b>Conclusion/Summary</b>	: Not available.	
General	: May cause damage to organs through prolonged or repeated exposu	re.
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
Conclusion/Summary	: Based on available data, the classifica	ation criteria are not met.	

## 12.2 Persistence and degradability

	-	-				-				1
Cond	clu	JS	ic	n	/S	um	ım	ary	1	

: This product has not been tested for biodegradation.

Date of issue/Date of revision	: 13/03/2024	Date of previous issue	: No previous validation	Version :	1 <b>32/39</b>
ALPOCRYL PERLSTRUKTUR 53	371-30 - All va	ariants		Label No :6	8358

## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
2-butoxyethyl acetate	1.51	-	Low
Methyl methacrylate	1.38	-	Low
propylidynetrimethanol	-0.47	<1	Low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

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

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	993 UN1993		UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	N.O.S. (n-butyl N.O.S. (n-butyl		FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)
14.3 Transport hazard class(es)	3	3 3		3
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa ADR/RID ADN	: <u>Tunnel co</u> : The produc	de (D/E) t is only regulated as an ⊢in tank vessels.	environmentally hazardo	bus substance when
14.6 Special precau user	upright and	within user's premises secure. Ensure that per f an accident or spillage.		
14.7 Maritime trans bulk according to II instruments	-	t/applicable due to natur	e of the product.	

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designation [Usage]			
ALPOCRYL PERLSTRUKTUR 5371-30		≥90	3			
Labelling	:					
Other EU regulations						
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed					
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed					
Explosive precursors	: Not applicat	ole.				
te of issue/Date of revision	: 13/03/2024	Deter	revious issue : No previous v	alidation Versio	on :1	34/39

## **SECTION 15: Regulatory information**

## Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

Category			
P5c			
ational regulations			
<u>Austria</u>			
VbF class	: A II Very dangerous flammable liq	uid.	
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 11		
<u>Denmark</u>			
Danish fire class	: II-1		
Executive Order No. 1795	/2015		
Ingredient name		Annex I Section A	Annex I Section E
titanium dioxide		Listed	-
Ethylbenzene		Listed	-
MAL-code	: 3-3		
	General: Gloves must be wor	n for all work that may result it	n soiling Apron/
	<b>General:</b> Gloves must be wor coveralls/protective clothing m clothes do not adequately prot shield must be worn in work in case, other recommended use In all spraying operations in wh respiratory protection and arm appropriate or as instructed.	ust be worn when soiling is so ect skin against contact with th volving spattering if a full mash of eye protection is not requir nich there is return spray, the fo	o great that regular wo ne product. A face k is not required. In th red. following must be wor
	coveralls/protective clothing m clothes do not adequately prot shield must be worn in work in case, other recommended use In all spraying operations in wh respiratory protection and arm	ust be worn when soiling is so ect skin against contact with the volving spattering if a full mash of eye protection is not requir nich there is return spray, the fu protectors/apron/coveralls/pro	o great that regular wo ne product. A face k is not required. In the red. following must be wo otective clothing as
	coveralls/protective clothing m clothes do not adequately prot shield must be worn in work in case, other recommended use In all spraying operations in wh respiratory protection and arm appropriate or as instructed. MAL-code: 3-3 <b>Application:</b> When spraying zone. When using scraper or	ust be worn when soiling is so ect skin against contact with the volving spattering if a full mash of eye protection is not require hich there is return spray, the for protectors/apron/coveralls/pro- in new* booths if the operator is knife, brush, roller, etc. for pre- booth or spray cabin.	o great that regular wo ne product. A face k is not required. In the red. following must be wo otective clothing as
	coveralls/protective clothing m clothes do not adequately prot shield must be worn in work in case, other recommended use In all spraying operations in wh respiratory protection and arm appropriate or as instructed. MAL-code: 3-3 <b>Application:</b> When spraying zone. When using scraper or outside a closed facility, spray	ust be worn when soiling is so ect skin against contact with th volving spattering if a full mask e of eye protection is not requir nich there is return spray, the for protectors/apron/coveralls/pro- knife, brush, roller, etc. for pre- booth or spray cabin. ye protection must be worn. nd repair in closed facilities, sp vet paint or organic solvents. N - and post-treatments in cabina	o great that regular wo he product. A face k is not required. In the red. following must be wor otective clothing as is outside the spray and post-treatment oray booths or cabins When using scraper of s or booths of the
	<ul> <li>coveralls/protective clothing m clothes do not adequately prot shield must be worn in work in case, other recommended use</li> <li>In all spraying operations in wh respiratory protection and arm appropriate or as instructed.</li> <li>MAL-code: 3-3</li> <li>Application: When spraying zone. When using scraper or outside a closed facility, spray</li> <li>Air-supplied half mask and e</li> <li>During downtimes, cleaning ar there is a risk of contact with w knife, brush, roller, etc, for pre</li> </ul>	ust be worn when soiling is so ect skin against contact with the volving spattering if a full mask e of eye protection is not require nich there is return spray, the for protectors/apron/coveralls/pro- in new* booths if the operator is knife, brush, roller, etc. for pre- booth or spray cabin. ye protection must be worn. nd repair in closed facilities, sp vet paint or organic solvents. A - and post-treatments in cabina- erator is inside the spray zone.	o great that regular wo he product. A face k is not required. In the red. following must be wor otective clothing as is outside the spray e- and post-treatments oray booths or cabins, When using scraper of s or booths of the

## **SECTION 15: Regulatory information**

		- Air-supplied full mask, arm protectors and apron must be	worn.
		During non-atomising spraying in existing* facilities of the c cabin and spray-booth type where the operator is working in	
		- Air-supplied full mask, arm protectors and apron must be	worn.
		During all spraying where atomisation occurs in cabins or s operator is inside the spray zone and during spraying outsid or booth.	
		- Air-supplied full mask, coveralls and hood must be worn.	
		<b>Drying:</b> Items for drying/drying ovens that are temporarily rack trolleys, etc, must be equipped with a mechanical exha fumes from wet items from passing through workers' inhala	aust system to prevent
		<b>Polishing:</b> When polishing treated surfaces, a mask with When machine grinding, eye protection must be worn. Wor worn.	
		Caution The regulations contain other stipulations in addit	ion to the above.
		*See Regulations.	
Restrictions on use	;	Not to be used by professional users below 18 years of age Working Environment Authorities Executive Order regardin	
List of undesirable substances	:	Not listed	J J
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance of by Danish working environment legislation on cancer risks.	r substances regulated
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7	:	Ethylbenzene RG 2-butoxyethyl acetate RG	4bis, RG 84 84 84
Reinforced medical surveillance	:	Methyl methacrylate RG Act of July 11, 1977 determining the list of activities which r medical surveillance: not applicable	
<u>Germany</u>			
Storage class (TRGS 510)		3	
Hazardous incident ordinal			
This product is controlled une	de	r the Germany Hazardous Incident Ordinance.	
Danger criteria			
Category			Reference number
P5c			1.2.5.3
Hazard class for water	:	2	-
Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 69.5% TA-Luft Class I - Number 5.2.5: 2.9%	
<u>Italy</u>			
D.Lgs. 152/06	÷	Not determined.	
Netherlands		Employment (SZW) - Carcinogenic substances and pro	

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene	-	-	-	Development 2	-
Water Discharge Po (ABM)			tic organisms, may ha		dous effects in
<u>Norway</u>					
<u>Sweden</u>					
Flammable liquid cl (SRVFS 2005:10)	ass : 2a				
Switzerland					
VOC content	: VOC (w/	/w): 50%			
nternational regulati	<u>ons</u>				
<u>Chemical Weapon Co</u>	onvention List Sch	edules I, II & III	<u>Chemicals</u>		
Not listed.					
<u>Montreal Protocol</u>					
Not listed.					
Stockholm Convention	on on Persistent O	rganic Pollutan	ts		
Not listed.					
	n en Drien leferre				
Rotterdam Conventio	on on Prior Inform	<u>ea Consent (PIC</u>	<u>1</u>		
Not listed.					
<b>INECE Aarhus Proto</b>	col on POPs and	<u>Heavy Metals</u>			
Not listed.					
5.2 Chemical safety sessment	: This pro required		ostances for which Ch	nemical Safety Ass	essments are stil

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information		
H225 Hig	ghly flammable liquid and vapour.	
H226 Fla	Flammable liquid and vapour.	
H304 Ma	y be fatal if swallowed and enters airways.	
H312 Ha	rmful in contact with skin.	
H315 Ca	Causes skin irritation.	
H317 Ma	y cause an allergic skin reaction.	
H319 Ca	uses serious eye irritation.	
	rmful if inhaled.	
	y cause respiratory irritation.	
	y cause drowsiness or dizziness.	
	Suspected of causing cancer.	
	spected of damaging fertility. Suspected of damaging the unborn child.	
	y cause damage to organs through prolonged or repeated exposure.	
EUH066 Re	peated exposure may cause skin dryness or cracking.	
Full text of classification	ations [CLP/GHS]	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Carc. 2	CARCINOGENICITY - Category 2	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
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 revision	of : 13/03/2024	
Date of previous iss	ue : No previous validation	
Version	: 1	
	ALPOCRYL PERLSTRUKTUR 5371-30 All variants	

#### 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: 13/03/2024Date of previous issueALPOCRYL PERLSTRUKTUR 5371-30 - All variants

: No previous validation