SAFETY DATA SHEET



ALPOCRYL KF 5372-30 - All variants

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

1.1 Product identifier

Product name : ALPOCRYL KF 5372-30 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product 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 : responsible for this SDS

s of person : Prod-safe@teknos.com

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 : Warning

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

Label No: 67289

sources. No smoking.

P260 - Do not breathe vapour.

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 11/31

SECTION 2: Hazards identification

Response

: P314 - Get medical advice/attention if you feel unwell.

Storage

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients

Supplemental label elements

: Contains: n-Butyl acetate and Xylene

: Contains Methyl methacrylate and N,N,4-trimethylpiperazine-1-ethylamine. 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

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
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/	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[1] [2]

Date of issue/Date of revision

: 19/12/2023

Date of previous issue

: No previous validation

Version :1 Label No :67289

2/31

SECTION 3: Compo	osition/informat	ion on in	gredients		
	Index: 607-038-00-2			I	
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
N,N,4-trimethylpiperazine- 1-ethylamine	EC: 203-183-7 CAS: 104-19-8	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg	[1]

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 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 symptoms and effects, both acute and delayed

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 13/31ALPOCRYL KF 5372-30 - All variantsLabel No :67289

SECTION 4: First aid measures

Over-exposure signs/symptoms

: Adverse symptoms may include the following: Eye contact

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the

substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision : 19/12/2023 4/31 Date of previous issue : No previous validation Version :1 **Label No: 67289**

SECTION 6: Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, 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 criteria

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

Date of issue/Date of revision : 19/12/2023 Version:1 5/31 Date of previous issue : No previous validation ALPOCRYL KF 5372-30 - All variants **Label No: 67289**

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m³, 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m³ 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m³, 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 ³ 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 270 mg/m³, 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 ³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 420 mg/m³, 8 times per shift, 5 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m ³ 15 minutes.
	STEL: 712 highin 13 himities. STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m³ 8 hours.
	TWA: 250 mg/m o flodis.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
Aylene	skin.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	STEL: 442 mg/m³ 15 minutes.
Etriyiberizerie	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 87 mg/m³ 8 hours.
	STEL: 125 ppm 15 minutes.
2 hutovivothyl acatata	STEL: 551 mg/m³ 15 minutes.
2-butoxyethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 16/31ALPOCRYL KF 5372-30 - All variantsLabel No :67289

TWA: 133 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m³ 15 minutes. Methyl methacrylate Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 208 mg/m³ 8 hours. STEL: 416 mg/m³ 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/m³ 8 hours. Limit value 15 min: 723 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of **Xylene** Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 15 min: 442 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 15 min: 545 mg/m³ 15 minutes. 2-butoxyethyl acetate Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 133 mg/m³ 8 hours. Limit value 15 min: 333 mg/m³ 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. n-Butyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 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/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ Ethylbenzene STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours. 2-butoxyethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 333 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 133 mg/m³ 8 hours.

Date of issue/Date of revision Version:1 7/31 : 19/12/2023 Date of previous issue : No previous validation ALPOCRYL KF 5372-30 - All variants **Label No: 67289**

Methyl methacrylate

ELV: 20 ppm 8 hours.

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.

n-Butyl acetate Department of labour inspection (Cyprus, 7/2021).

STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.

Xylene Department of labour inspection (Cyprus, 7/2021). [Xylene,

mixed isomers] Absorbed through skin.

STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours.

Ethylbenzene Department of labour inspection (Cyprus, 7/2021). Absorbed

through skin.

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

2-butoxyethyl acetate Department of labour inspection (Cyprus, 7/2021). Absorbed

through skin.

STEL: 50 ppm 15 minutes. STEL: 333 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 133 mg/m³ 8 hours.

Methyl methacrylate Department of labour inspection (Cyprus, 7/2021).

STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

n-Butyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022).

TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.

Xylene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and

all isomers] Absorbed through skin.

TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes.

Ethylbenzene Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Absorbed through skin.

TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m³ 15 minutes. STEL: 113.5 ppm 15 minutes.

2-butoxyethyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Absorbed through skin.

Label No: 67289

TWA: 130 mg/m³ 8 hours. TWA: 19.5 ppm 8 hours. STEL: 300 mg/m³ 15 minutes. STEL: 45 ppm 15 minutes.

Methyl methacrylate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Skin sensitiser.

TWA: 50 mg/m³ 8 hours. TWA: 12 ppm 8 hours. STEL: 150 mg/m³ 15 minutes. STEL: 36 ppm 15 minutes.

Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation Version : 1 8/31

Working Environment Authority (Denmark, 6/2022). [Butyl n-Butyl acetate acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 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. Working Environment Authority (Denmark, 6/2022). Absorbed Ethylbenzene through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m³ 8 hours. STEL: 434 mg/m³ 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/m³ 8 hours. STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. Methyl methacrylate Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 102 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 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/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 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/m³ 15 minutes. STEL: 50 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, Methyl methacrylate 12/2022). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

Date of issue/Date of revision Version:1 9/31 : 19/12/2023 Date of previous issue : No previous validation

Label No: 67289

EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 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/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 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/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-butoxyethyl acetate of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 133 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m3 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative Methyl methacrylate 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/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m³ 15 minutes. **Xylene** Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m³ 15 minutes. TWA: 220 mg/m³ 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/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 880 mg/m³ 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/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 330 mg/m³ 15 minutes. Methyl methacrylate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 42 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes.

Date of issue/Date of revision : 19/12/2023 10/31 Date of previous issue : No previous validation Version: 1 **Label No: 67289**

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: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 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/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 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/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ministry of Labor (France, 10/2022). Absorbed through skin. 2-butoxyethyl acetate Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 66.5 mg/m³ 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/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 410 mg/m³ 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/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. **Xylene** TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 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/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.

Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation Version: 1 ALPOCRYL KF 5372-30 - All variants **Label No: 67289**

11/31

TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. 2-butoxyethyl acetate TWA: 65 mg/m³ 8 hours. PEAK: 130 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 66 mg/m³ 8 hours. PEAK: 132 mg/m³, 4 times per shift, 15 minutes. Methyl methacrylate TRGS 900 OEL (Germany, 6/2022). TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 50 ml/m3 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³, 4 times per shift, 15 minutes. PEAK: 100 ml/m³, 4 times per shift, 15 minutes. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. **Xylene** 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/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit 2-butoxyethyl acetate values (Greece, 9/2021). TWA: 20 ppm 8 hours. TWA: 135 mg/m³ 8 hours. STEL: 40 ppm 15 minutes. STEL: 270 mg/m³ 15 minutes. Methyl methacrylate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture **Xylene** of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours.

PEAK: 442 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes.

Label No: 67289

Date of issue/Date of revision : 19/12/2023 12/31 Date of previous issue : No previous validation Version: 1

TWA: 50 ppm 8 hours.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser.

TWA: 442 mg/m³ 8 hours.

PEAK: 884 mg/m³ 15 minutes.

PEAK: 200 ppm 15 minutes.
TWA: 100 ppm 8 hours.

2-butoxyethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed

through skin.

TWA: 133 mg/m³ 8 hours. PEAK: 333 mg/m³ 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/m³ 8 hours. PEAK: 415 mg/m³ 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/m³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 723 mg/m³ 15 minutes.
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/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

Ethylbenzene Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

Absorbed through skin.
STEL: 884 mg/m³ 15 minutes.
STEL: 200 ppm 15 minutes.
TWA: 200 mg/m³ 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/m³ 15 minutes.
STEL: 50 ppm 15 minutes.
TWA: 133 mg/m³ 8 hours.
TWA: 20 ppm 8 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/m³ 8 hours.

OELV-15min: 150 ppm 15 minutes.

OELV-15min: 723 mg/m³ 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/m³ 8 hours.
OELV-15min: 100 ppm 15 minutes.
OELV-15min: 442 mg/m³ 15 minutes.

Ethylbenzene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

Label No: 67289

OELV-8hr: 100 ppm 8 hours. OELV-8hr: 442 mg/m³ 8 hours.

Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation Version : 1 13/31

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

Date of issue/Date of revision : 19/12/2023 14/31 Date of previous issue : No previous validation Version : 1 **Label No: 67289**

Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 133 mg/m³ 8 hours.

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

ALPOCRYL KF 5372-30 - All variants

2-butoxyethyl acetate

TWA: 20 ppm 8 hours. STEL: 333 ma/m³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Methyl methacrylate TWA: 10 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butyl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). **Xylene** [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m3 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. 2-butoxyethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 70 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 140 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin Methyl methacrylate sensitiser. Inhalation sensitiser. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 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/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I Ethylbenzene (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 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/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m³ 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.

No exposure limit value known.

Date of issue/Date of revision : 19/12/2023 15/31 Date of previous issue : No previous validation Version: 1 **Label No: 67289**

SECTION 8: Exposure controls/personal protection No exposure limit value known. No exposure limit value known.

Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
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.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 116/31ALPOCRYL KF 5372-30 - All variantsLabel No :67289

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.

2-butoxyethyl acetate

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.

Xylene

Ethylbenzene

2-butoxyethyl acetate

No exposure indices known.

Xylene

Ethylbenzene

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene]

BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.

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.

DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

DFG BEI-values list (Germany, 7/2022) Notes: danger from 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.

DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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.

TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 150 mg/g, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene]

BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.

BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time:

Label No: 67289

 Date of issue/Date of revision
 : 19/12/2023
 Date of previous issue
 : No previous validation
 Version
 : 1
 17/31

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known. No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known. No exposure indices known.

No experiencia di ese la companya

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known. No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Sampling time: at the end of the working week; at the end of the shift.

at the end of the working week; at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].

NAOSH (Ireland, 1/2011) [Xylene]

BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

NAOSH (Ireland, 1/2011)

BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.

BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.

Recommended monitoring procedures

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.

Label No: 67289

DNELs/DMELs

Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation Version : 1 18/31

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
	DNEL	Long term Oral	bw/day 2 mg/kg bw/day	population General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population Workers	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day 12 mg/m³	General	Systemic Systemic
	DNEL	Inhalation Long term	48 mg/m³	population Workers	Systemic
Xylene	DNEL	Inhalation Long term	65.3 mg/m³		Local
	DNEL	Inhalation Short term	260 mg/m³	population General	Local
	DNEL	Inhalation Short term	260 mg/m ³	population General	Systemic
	DNEL	Inhalation Long term Inhalation	221 mg/m³	population Workers	Local
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³		Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
Ethylhenzene	DNEL	Short term Inhalation	442 mg/m ³	Workers General	Systemic Systemic
Ethylbenzene	DNEL	Long term Oral Long term	1.6 mg/kg bw/day 15 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	77 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	180 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 293 mg/m³		Local
	DMEL	Inhalation Long term	442 mg/m³	Workers	Local
	DMEL	Inhalation Short term Inhalation	884 mg/m³	Workers	Systemic
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Date of issue/Date of revision : 19/12/2023 Date of previous issue
ALPOCRYL KF 5372-30 - All variants

SECTION 8: Exposure controls/personal protection DNEL Long term Oral 2-butoxyethyl acetate 8.6 mg/kg General Systemic

Z-DUIOAYEITIYI ACEIAIE	DIVLL	Long term Oral	0.0 mg/kg	General	Systemic
		_	bw/day	population	-
	DNEL	Short term Oral	36 mg/kg	General	Systemic
	DIVLL	Onort term oral			Cysternic
	DATE		bw/day	population	0
	DNEL	Short term Dermal	72 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	80 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
	5.122	Zeng term Zerma.	bw/day	population	Cyclonia
	DNEL	Short term Dermal	120 mg/kg	Workers	Systemic
	DINEL	Short term Dermai		WUIKEIS	Systernic
	5		bw/day		
	DNEL	Long term	133 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	169 mg/kg	Workers	Systemic
			bw/day		•
	DNEL	Short term	200 mg/m ³	General	Local
	5.122	Inhalation	200 mg/m	population	20001
	DNEL	Short term	333 mg/m ³	Workers	Local
	DINEL		SSS HIg/III	Workers	Local
	5	Inhalation			
Methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	208 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	416 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term Dermal	1 5 mg/om²	General	Local
	DINEL	Short term Dermai	1.5 mg/cm ²		Lucai
	DATE	l. <i>.</i>	4.5 / 3	population	
	DNEL	Long term Dermal	1.5 mg/cm ²	General	Local
				population	
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
	5.466	Long torri Dorria	kg bw/day	TTOIROIG	Cyclonno
	DNE	Long torm		Canaral	Cuatamia
	DNEL	Long term	74.3 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	104 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	348.4 mg/	Workers	Systemic
		Inhalation	m³		-,
N,N,4-trimethylpiperazine-	חאבו		0.167 mg/	Morkore	Systemis
IN.IN.4-UIIIIEUIVIDIDELA/IIIE-	DNEL	Long term Dermal		Workers	Systemic
		ı	kg bw/day		
1-ethylamine		l			• •
	DNEL	Long term Inhalation	0.59 mg/m ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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.

Version :1 Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation 20/31 **Label No: 67289**

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:

Filter type (spray application):

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour : Various **Odour** : Slight : Not available. **Odour threshold**

Melting point/freezing point : 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. Lower and upper explosion Lower: 0.8% limit Upper: 7.6%

Date of issue/Date of revision : 19/12/2023 21/31 Date of previous issue Version :1 : No previous validation **Label No: 67289**

SECTION 9: Physical and chemical properties

: Closed cup: 27°C (80.6°F) Flash point

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. pН : Not applicable. **Viscosity** Not available.

Solubility(ies)

Not available.

Solubility in water : Not available. Partition coefficient: n-octanol/: Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Var	oour pressu	re 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				

: Not available. Relative density **Density** : 1.1 g/cm³ Vapour density : Not available. : Not available. **Explosive properties Oxidising properties** : Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : The product is stable.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur.

hazardous reactions

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

: Under normal conditions of storage and use, hazardous decomposition products 10.6 Hazardous decomposition products

should not be produced.

Date of issue/Date of revision : 19/12/2023 Version:1 22/31 Date of previous issue : No previous validation **Label No: 67289**

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 ³	4 hours
-	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Dermal Inhalation (vapours)	6925.93 mg/kg 58.43 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 I	
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	-
				mg	
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
N,N,4-trimethylpiperazine-	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
1-ethylamine				ug	
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				mg	

Conclusion/Summary

: Causes skin irritation.

Sensitisation

Conclusion/Summary

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

Mutagenicity

Conclusion/Summary

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

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary

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

Reproductive toxicity

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

Date of issue/Date of revision : 19/12/2023 Date of previous issue : No previous validation Version :1 23/31 **Label No: 67289**

SECTION 11: Toxicological information

Teratogenicity

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	Category 2	oral, inhalation oral, inhalation	-
Ethylbenzene	Category 2		hearing organs

Aspiration hazard

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

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

dizziness.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

: Adverse symptoms may include the following: **Eye contact**

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatique dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Date of issue/Date of revision : 19/12/2023 Version:1 Date of previous issue : No previous validation **Label No: 67289**

24/31

SECTION 11: Toxicological information

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: May cause damage to organs through prolonged or repeated exposure.

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 properties

Not available.

11.2.2 Other information

Not 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

Conclusion/Summary

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

12.2 Persistence and degradability

Conclusion/Summary: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

Product/ingredient name	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

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 125/31ALPOCRYL KF 5372-30 - All variantsLabel No :67289

SECTION 12: Ecological information

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

European waste catalogue (EWC) : The classification of the product may meet the criteria for a hazardous waste.

: 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	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID

: Tunnel code (D/E)

ADN

The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

Date of issue/Date of revision : 19/12/2023 Version :1 26/31 Date of previous issue : No previous validation **Label No: 67289**

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 KF 5372-30	≥90	3

Labelling

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

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.

Danger criteria

Category

P5c

National regulations

Austria

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

Czech Republic

Storage code : II

Denmark

Danish fire class : II-1 Executive Order No. 1795/2015

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

MAL-code : 4-3

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 127/31ALPOCRYL KF 5372-30 - All variantsLabel No :67289

SECTION 15: Regulatory information

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

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

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

MAL-code: 4-3

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

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

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

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

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

Air-supplied full mask and coveralls must be worn.

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

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

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

- Air-supplied full mask must be worn.

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

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

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

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

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

*See Regulations.

Restrictions on use

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

List of undesirable substances

: Not listed

Date of issue/Date of revision : 19/12/2023 28/31 Date of previous issue Version: 1 : No previous validation **Label No: 67289**

SECTION 15: Regulatory information

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

RG 84

Finland

France

Social Security Code, : n-Butyl acetate

Articles L 461-1 to L 461-7 Xylene RG 4bis, RG 84

Ethylbenzene RG 84
2-butoxyethyl acetate RG 84
Methyl methacrylate RG 82

Reinforced medical

surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced

medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3 Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : 2

Technical instruction on

: TA-Luft Number 5.2.5: 75.3%

air quality control

TA-Luft Class I - Number 5.2.5: 2.9%

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

Netherlands Norway

<u>Sweden</u>

Switzerland

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

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

Label No: 67289

assessment required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 129/31

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

ACUTE TOXICITY - Category 3
ACUTE TOXICITY - Category 4
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
ASPIRATION HAZARD - Category 1
CARCINOGENICITY - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 1B
SKIN CORROSION/IRRITATION - Category 2
SKIN SENSITISATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of : 19/12/2023

revision

Date of previous issue : No previous validation

Version : 1

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 : 19/12/2023 Date of previous issue Version :1 30/31 : No previous validation **Label No: 67289**

Date of issue/Date of revision: 19/12/2023Date of previous issue: No previous validationVersion: 131/31

ALPOCRYL KF 5372-30 - All variants Label No :67289