# SAFETY DATA SHEET



ALPOCRYL RF 5364-15 - All variants

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

#### 1.1 Product identifier

Product name : ALPOCRYL RF 5364-15 - 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

n : 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

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sources. No smoking.

P260 - Do not breathe vapour.

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#### 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	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]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226	-	[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)	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]

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#### SECTION 3: Composition/information on ingredients Asp. Tox. 1, H304 2-butoxyethyl acetate REACH #: ≤3 Acute Tox. 4, H312 ATE [Dermal] = [1] [2] 01-2119475112-47 Acute Tox. 4, H332 1500 mg/kg EC: 203-933-3 ATE [Inhalation (vapours)] = 11 mg/ CAS: 112-07-2 Index: 607-038-00-2 REACH #: Flam. Liq. 2, H225 Methyl methacrylate ≤0.3 [1] [2] 01-2119452498-28 Skin Irrit. 2, H315 EC: 201-297-1 Skin Sens. 1, H317 STOT SE 3, H335 CAS: 80-62-6 Index: 607-035-00-6 N,N,4-trimethylpiperazine-EC: 203-183-7 ≤0.3 Acute Tox. 4, H302 ATE [Oral] = 500 [1] 1-ethylamine CAS: 104-19-8 Acute Tox. 3, H311 mg/kg Skin Corr. 1B, H314 ATE [Dermal] = Eye Dam. 1, H318 300 mg/kg Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H

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.

- [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.

statements declared

above.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

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

#### **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

#### Over-exposure signs/symptoms

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

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

irritation redness

**Ingestion**: No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**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 nitrogen oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

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

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#### SECTION 6: Accidental release measures

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

#### For non-emergency personnel

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

#### For emergency responders:

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

#### 6.2 Environmental precautions

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

#### 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

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# **SECTION 7: Handling and storage**

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

#### 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/m <sup>3</sup> 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.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 550 mg/m³, 8 times per shift, 5 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/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 <sup>3</sup> 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/m³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 420 mg/m³, 8 times per shift, 5 minutes.

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SECTION 8: Exposure controls/personal protection n-Butyl acetate Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m³ 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 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. 2-Methoxy-1-methylethyl acetate Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 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. Limit values (Belgium, 5/2021). Absorbed through skin. 2-butoxyethyl acetate 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. Limit values (Belgium, 5/2021). Methyl methacrylate 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. No exposure limit value known. Working Environment Authority (Denmark, 6/2022). [Butyl n-Butyl acetate 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/m<sup>3</sup> 8 hours. STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Working Environment Authority (Denmark, 6/2022). [2-Methoxy-1-methylethyl acetate] Absorbed through skin. TWA: 50 ppm 8 hours.

Ethylbenzene

2-butoxyethyl acetate

TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.

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/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). Absorbed

through skin.

TWA: 20 ppm 8 hours. TWA: 134 mg/m<sup>3</sup> 8 hours.

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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.

No exposure limit value known.

n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative

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.

2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

of indicative occupational exposure limit values

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 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.

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/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m³ 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 Institute of Occupational Health, Ministry of Social Affairs

(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.

2-Methoxy-1-methylethyl acetate Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Absorbed through skin.

TWA: 50 ppm 8 hours.

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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.

No exposure limit value known.

NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate

> **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/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/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m<sup>3</sup> 15 minutes.

2-Methoxy-1-methylethyl acetate NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 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. OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m³ 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/m3 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 333 mg/m<sup>3</sup> 15 minutes.

Methyl 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.

EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate

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.

Legislative Decree No. 819/2008. Title IX. Protection from Xylene

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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. Legislative Decree No. 819/2008. Title IX. Protection from 2-Methoxy-1-methylethyl acetate chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m<sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 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/m<sup>3</sup> 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m3 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. 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/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. **Xylene** 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. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 2-Methoxy-1-methylethyl acetate Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Ethylbenzene 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. 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. TWA: 20 ppm 8 hours. STEL: 333 mg/m<sup>3</sup> 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Methyl methacrylate TWA: 10 mg/m<sup>3</sup> 8 hours.

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No exposure limit value known.

SECTION 8: Exposure controls/personal protection 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. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-Methoxy-1-methylethyl acetate (Luxembourg, 3/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 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. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-butoxyethyl acetate (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/m³ 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I Methyl methacrylate (Luxembourg, 3/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. No exposure limit value known. No exposure limit value known. n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. **Xylene** FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m<sup>3</sup> 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through 2-Methoxy-1-methylethyl acetate skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through Ethylbenzene skin. Carcinogen. Notes: indicative limit value

TWA: 5 ppm 8 hours. TWA: 20 mg/m<sup>3</sup> 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through 2-butoxyethyl acetate

skin. Notes: indicative limit value

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TWA: 10 ppm 8 hours. TWA: 65 mg/m<sup>3</sup> 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Methyl methacrylate

> Notes: indicative limit value TWA: 25 ppm 8 hours.

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

FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

STEL: 400 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy n-Butyl acetate 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).

> TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 720 mg/m<sup>3</sup> 15 minutes.

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). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

TWA: 100 mg/m<sup>3</sup> 8 hours. STEL: 200 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 260 mg/m<sup>3</sup> 8 hours. STEL: 520 mg/m3 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 200 mg/m<sup>3</sup> 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 100 mg/m<sup>3</sup> 8 hours. STEL: 300 mg/m3 15 minutes.

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).

TWA: 100 mg/m<sup>3</sup> 8 hours. STEL: 300 mg/m<sup>3</sup> 15 minutes.

2-Methoxy-1-methylethyl acetate

Ethylbenzene

**Xylene** 

2-butoxyethyl acetate

Methyl methacrylate

No exposure limit value known.

n-Butyl acetate

**Xylene** 

Work environment authority Regulation 2018:1 (Sweden, 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/m3 15 minutes.

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin.

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TWA: 50 ppm 8 hours.

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TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. 2-Methoxy-1-methylethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 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/m3 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. 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.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene]  BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
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.	

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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

#### 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.

No exposure indices known.

**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** 

procedures

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Product/ingredient name	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	_
	DNEL	Long term Oral	2 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 6 mg/kg	population General	Systemic
	DIVLE	Chort term Dermai	bw/day	population	Cyclenno
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DAIEI		bw/day		
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation	· ·	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term	300 mg/m³	population Workers	Local
	DIVLL	Inhalation	300 mg/m	WOIKEIS	Local
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
	DAIEI	Inhalation	000 / 3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 12 mg/m³	General	Systemic
	DIVLE	Inhalation	12 1119/111	population	Oysternio
	DNEL	Long term	48 mg/m³	Workers	Systemic
V. Jana	DNE	Inhalation	CE 0/3	0	l a a a l
Xylene	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation	_	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term	221 mg/m³	population Workers	Local
	5.122	Inhalation		TT GINGIO	20001
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	DNEL	Long term	kg bw/day 65.3 mg/m³	population General	Systemia
	DINEL	Inhalation	oo.s mg/m	population	Systemic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
	DAIEI		bw/day	population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term	442 mg/m³	Workers	Systemic
		Inhalation			-
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
	DNEL	Inhalation Long term	33 mg/m³	population General	Systemic
	D. 1LL	Inhalation	Jo mg/m	population	5,0.0.1110
	DNEL	Long term Oral	36 mg/kg	General	Systemic
	DNEL	Long term	bw/day 275 mg/m³	population Workers	Systemic
	DINCL	Long term Inhalation	Z13 mg/m²	VV OINCIS	Systemic
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
	ראבי	Chart to	bw/day	population	
	DNEL	Short term Inhalation	550 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
			bw/day		
1		<u> </u>	<u> </u>		

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Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term	15 mg/m³	General	Systemic
	DNEL	Inhalation Long term	77 mg/m³	population Workers	Systemic
	DINEL	Inhalation	/ / mg/m	Workers	Systernic
	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/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
2-butoxyethyl acetate	DNEL	Long term Oral	8.6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	72 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	80 mg/m³	General population	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	120 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	133 mg/m³	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 bw/day	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m <sup>3</sup>	General	Local
	DNEL	Short term Inhalation	416 mg/m <sup>3</sup>	population Workers	Local
	DNEL	Short term Dermal	1.5 mg/cm²	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	General population	Local
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	104 mg/m³	General population	Local
	DNEL	Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	348.4 mg/ m³	Workers	Systemic
N,N,4-trimethylpiperazine- 1-ethylamine	DNEL	Long term Dermal	0.167 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.59 mg/m³	Workers	Systemic
1-					

#### **PNECs**

No PNECs available

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#### 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.

**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

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.

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# **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: VariousOdour: Slight

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# SECTION 9: Physical and chemical properties

: Not available. **Odour threshold** Not available. Melting point/freezing point

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%

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

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
2-butoxyethyl acetate	340	644	

**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			Va	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 : 1.1 g/cm<sup>3</sup> **Density** Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

# SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of : 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.

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# **SECTION 10: Stability and reactivity**

**10.5 Incompatible materials** : Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous 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	-
2-Methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 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	-

**Conclusion/Summary** 

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

#### **Acute toxicity estimates**

Route	ATE value
Dermal	8216.6 mg/kg
Inhalation (vapours)	69.88 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** 

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# **SECTION 11: Toxicological information**

**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.

**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	Category 3	-	Narcotic effects
Xylene	Category 3	-	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.

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

#### 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/fatigue dizziness/vertigo unconsciousness

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

> irritation redness

Ingestion : No specific data.

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# **SECTION 11: Toxicological information**

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

**Short term exposure** 

**Potential immediate** : Not available.

effects

: Not available. Potential delayed effects

**Long term exposure** 

**Potential immediate** 

effects

: Not available.

: Not available. **Potential delayed effects** 

Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

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

: No known significant effects or critical hazards. Carcinogenicity 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 Acute LC50 18000 µg/l Fresh water	Crustaceans - Artemia salina Fish - Pimephales promelas	48 hours 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
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Ethylbenzene	3.6	-	Low
2-butoxyethyl acetate	1.51	-	Low
Methyl methacrylate	1.38	-	Low

#### 12.4 Mobility in soil

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# SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

: Not available. **Mobility** 

#### 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 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** 

: The classification of the product may meet the criteria for a hazardous waste. : 08.01.11

**European waste** catalogue (EWC)

**Packaging** 

**Methods of disposal** 

**Special precautions** 

- : 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.
- : 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, 2-methoxy- 1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III

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# SECTION 14: Transport information 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.

# **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]
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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			

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# **SECTION 15: Regulatory information**

#### **National regulations**

**Austria** 

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

**Czech Republic** 

**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

**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.

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# **SECTION 15: Regulatory information**

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

Carcinogenic waste

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

**Finland France Germany** 

**Hazardous incident ordinance** 

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

**Netherlands Norway Sweden** 

Flammable liquid class

: 2a

(SRVFS 2005:10)

**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 assessment

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

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#### **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.

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

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 Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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

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## **SECTION 16: Other information**

#### **Notice to reader**

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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