SAFETY DATA SHEET



ALPOLAN MARINE VARNISH 2420-80 - All variants

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

1.1 Product identifier

Product name : ALPOLAN MARINE VARNISH 2420-80 - 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 : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Eye Irrit. 2, H319 Skin Sens. 1, H317 **STOT SE 3, H336** Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

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

sources. No smoking.

P273 - Avoid release to the environment.

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SECTION 2: Hazards identification

Response

: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

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

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

national and international regulations.

Hazardous ingredients

Supplemental label

elements

: Contains: n-Butyl acetate and EO bis(benztriazolyl)phenylpropionat

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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]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Naphtha (petroleum), hydrotreated light	EC: 265-151-9 CAS: 64742-49-0 Index: 649-328-00-1	≤5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
EO bis(benztriazolyl)	REACH #:	≤3	Skin Sens. 1A, H317	-	[1]

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SECTION 3: Composition/information on ingredients 01-0000015075-76 Aquatic Chronic 2, phenylpropionat EC: 400-830-7 H411 CAS: 104810-48-2 Index: 607-176-00-3 propylidynetrimethanol REACH #: ≤1 Repr. 2, H361fd [1] 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6 See Section 16 for the full text of the H statements declared

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

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

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following: pain or irritation watering redness

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SECTION 4: First aid measures

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 : 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

: Highly 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide

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.

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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".

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SECTION 6: Accidental release measures

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill

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

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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

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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.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours.
	PEAK: 1468 mg/m³, 4 times per shift, 15 minutes.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
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-butoxyethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 133 mg/m³ 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 270 mg/m³, 4 times per shift, 30 minutes.
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 ³ 8 hours.
Ethyd costate	TWA: 50 ppm 8 hours.
Ethyl acetate	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.
	STEL: 1468 mg/m³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
Xylerie	skin.
	TWA: 50 ppm 8 hours.
	TWA: 30 ppm o nours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m³ 15 minutes.
2-butoxyethyl acetate	Limit values (Belgium, 5/2021). 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.

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Ministry of Labour and Social Policy and the Ministry of n-Butyl acetate 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. Ethyl acetate Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 734 mg/m³ 8 hours. Limit value 15 min: 400 ppm 15 minutes. Limit value 15 min: 1468 mg/m³ 15 minutes. Limit value 8 hours: 200 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. Ministry of Labour and Social Policy and the Ministry of 2-butoxyethyl acetate 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. Ministry of Labour and Social Policy and the Ministry of propylidynetrimethanol Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 50 mg/m3 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate 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. Ministry of Economy, Labour and Entrepreneurship ELV/ Ethyl acetate STELV (Croatia, 1/2021). STELV: 400 ppm 15 minutes. ELV: 200 ppm 8 hours. STELV: 1468 mg/m³ 15 minutes. ELV: 734 mg/m³ 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ **Xylene** 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/ 2-butoxyethyl acetate STELV (Croatia, 1/2021). Absorbed through skin. STELV: 333 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 133 mg/m³ 8 hours. ELV: 20 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.

TWA: 241 mg/m³ 8 hours.

Department of labour inspection (Cyprus, 7/2021). Ethyl acetate

STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours.

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TWA: 734 mg/m³ 8 hours.

Xylene Department of labour insp

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.

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.

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.

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

Republic, 10/2022).

TWA: 700 mg/m³ 8 hours. TWA: 191.1 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. STEL: 245.7 ppm 15 minutes.

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.

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

Republic, 10/2022). Absorbed through skin.

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

n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl

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.

Ethyl acetate Working Environment Authority (Denmark, 6/2022).

TWA: 150 ppm 8 hours. TWA: 540 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 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.

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.

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n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Ethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, **Xylene** 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. Occupational exposure limits, Regulation No. 293 (Estonia, 2-butoxyethyl acetate 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. 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. EU OEL (Europe, 1/2022). Notes: list of indicative Ethyl acetate occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 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. 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. 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. Ethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1470 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs **Xylene** (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m³ 15 minutes. Version:1 Date of issue/Date of revision : 29/02/2024 Date of previous issue : No previous validation 9/34

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TWA: 220 mg/m³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 100 ppm 15 minutes.

2-butoxyethyl acetate Institute of Occupational Health, Ministry of Social Affairs (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.

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.

Ethyl acetate Ministry of Labor (France, 10/2022). Notes: Binding regulatory

limit values (article R. 4412-149 of the Labor Code)

TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 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.

2-butoxyethyl acetate Ministry of Labor (France, 10/2022). Absorbed through skin.

Notes: Binding regulatory limit values (article R. 4412-149 of

the Labor Code)

STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 66.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

n-Butyl acetate DFG MAC-values list (Germany, 7/2022).

Ethyl acetate

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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.

TRGS 900 OEL (Germany, 6/2022).

TWA: 730 mg/m³ 8 hours.
PEAK: 1460 mg/m³ 15 minutes.
TWA: 200 ppm 8 hours.
PEAK: 400 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2022).

TWA: 200 ppm 8 hours.

PEAK: 400 ppm, 4 times per shift, 15 minutes.

TWA: 750 mg/m³ 8 hours.

PEAK: 1500 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through

skin.

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)]

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Absorbed through skin.
TWA: 50 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection 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. 2-butoxyethyl acetate TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. 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. 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. Ethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 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. 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. 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. Ethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 734 mg/m³ 8 hours. PEAK: 1468 mg/m³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 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. TWA: 50 ppm 8 hours.

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

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

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2-butoxyethyl acetate

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [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. Ethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 540 mg/m³ 8 hours. TWA: 150 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). **Xylene** [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. 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. 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. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Ethyl acetate Exposure Limit Values OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m³ 15 minutes. OELV-8hr: 734 mg/m³ 8 hours. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed **Xylene** 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. 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. 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. Legislative Decree No. 819/2008. Title IX. Protection from Ethyl acetate chemical agents, carcinogens and mutagens (Italy, 6/2020). Short Term: 400 ppm 15 minutes. Short Term: 1468 mg/m³ 15 minutes. 8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m³ 8 hours. **Xylene** Legislative Decree No. 819/2008. Title IX. Protection from

[Xylenes, mixed isomers, pure] Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m³ 8 hours.

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chemical agents, carcinogens and mutagens (Italy, 6/2020).

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Short Term: 100 ppm 15 minutes. Short Term: 442 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/m³ 8 hours.

Short Term: 50 ppm 15 minutes. Short Term: 333 mg/m³ 15 minutes.

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

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

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

TWA: 200 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 54 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.

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

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

n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

Ethyl acetate | Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m³ CEIL: 300 ppm

Xylene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

[xylene, mixed isomers, pure] Absorbed through skin.

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

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.

propylidynetrimethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

CEIL: 5 ppm

n-Butyl acetate | Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021).

STEL: 150 ppm 15 minutes.

STEL: 723 mg/m³ 15 minutes.

TWA: 50 ppm 8 hours.

TWA: 241 mg/m³ 8 hours.

Ethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021).

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STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 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 2-butoxyethyl acetate (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. 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. EU OEL (Europe, 1/2022). Notes: list of indicative Ethyl acetate occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m3 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 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-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. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m3 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values Ethyl acetate (Netherlands, 12/2022). STEL,15-min: 1468 mg/m³ 15 minutes. OEL, 8-h TWA: 734 mg/m³ 8 hours. STEL,15-min: 400 ppm 15 minutes. OEL, 8-h TWA: 200 ppm 8 hours. **Xylene** Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours.

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Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022). Absorbed through skin.

OEL, 8-h TWA: 135 mg/m3 8 hours.

2-butoxyethyl acetate

STEL,15-min: 333 mg/m3 15 minutes. OEL, 8-h TWA: 20.3 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.

n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022).

STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative

limit value

TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative Ethyl acetate

limit value

TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.

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

STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

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/m³ 8 hours.

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

skin. Notes: indicative limit value

TWA: 10 ppm 8 hours. TWA: 65 mg/m³ 8 hours.

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: 240 mg/m³ 8 hours. STEL: 720 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: 734 mg/m³ 8 hours. STEL: 1468 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). [benzin extraction]

TWA: 500 mg/m³ 8 hours. STEL: 1500 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). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

TWA: 100 mg/m³ 8 hours. STEL: 200 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: 100 mg/m³ 8 hours. STEL: 300 mg/m³ 15 minutes.

Xylene

2-butoxyethyl acetate

n-Butyl acetate

Ethyl acetate

Naphtha (petroleum), hydrotreated light

Xylene

2-butoxyethyl acetate

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Portuguese Institute of Quality (Portugal, 11/2014). n-Butyl acetate

TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

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

TWA: 400 ppm 8 hours.

Xylene Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]

TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.

2-butoxyethyl acetate Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 20 ppm 8 hours.

HG 1218/2006, Annex 1, with subsequent modifications and n-Butyl acetate

additions (Romania, 3/2021). VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

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

additions (Romania, 3/2021). VLA: 734 mg/m³ 8 hours. VLA: 200 ppm 8 hours.

Short term: 1468 mg/m³ 15 minutes. Short term: 400 ppm 15 minutes.

Xylene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin.

> VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

HG 1218/2006, Annex 1, with subsequent modifications and 2-butoxyethyl acetate additions (Romania, 3/2021). Absorbed through skin.

VLA: 133 mg/m³ 8 hours. VLA: 20 ppm 8 hours.

Short term: 333 mg/m³ 15 minutes. Short term: 50 ppm 15 minutes.

Government regulation SR c. 355/2006 (Slovakia, 9/2020). n-Butyl acetate

[Butyl acetates]

TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes.

Ethyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020).

> TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

Government regulation SR c. 355/2006 (Slovakia, 9/2020). **Xylene**

> [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m³, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours.

STEL: 442 mg/m³, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.

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Government regulation SR c. 355/2006 (Slovakia, 9/2020). 2-butoxyethyl acetate

> Absorbed through skin. TWA: 133 mg/m³ 8 hours. TWA: 20 ppm 8 hours.

STEL: 333 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

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n-Butyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to Ethyl acetate exposure to chemical substances at work (Slovenia, 5/2021). TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. KTV: 1468 mg/m³, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes. **Xylene** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. 2-butoxyethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 133 mg/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 333 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. n-Butyl acetate National institute of occupational safety and health (Spain, 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Ethyl acetate 4/2022). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. **Xylene** National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. 2-butoxyethyl acetate National institute of occupational safety and health (Spain, 4/2022). 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. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 550 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1100 mg/m3 15 minutes. Work environment authority Regulation 2018:1 (Sweden, **Xylene**

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9/2021). [xylene] 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.

2-butoxyethyl acetate Work environment authority Regulation 2018:1 (Sweden,

9/2021). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m³ 15 minutes.

Work environment authority Regulation 2018:1 (Sweden, propylidynetrimethanol

9/2021).

TWA: 5 mg/m³ 8 hours.

SUVA (Switzerland, 1/2023). n-Butyl acetate

TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.

Ethyl acetate SUVA (Switzerland, 1/2023). STEL: 400 ppm 15 minutes.

STEL: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours.

Naphtha (petroleum), hydrotreated light SUVA (Switzerland, 1/2023).

TWA: 500 ppm 8 hours. TWA: 2000 mg/m³ 8 hours.

Xylene SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed

through skin.

TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m³ 15 minutes.

SUVA (Switzerland, 1/2023). Absorbed through skin. 2-butoxyethyl acetate

> TWA: 10 ppm 8 hours. Form: vapour and aerosols TWA: 66 mg/m³ 8 hours. Form: vapour and aerosols STEL: 20 ppm 15 minutes. Form: vapour and aerosols STEL: 132 mg/m³ 15 minutes. Form: vapour and aerosols

EH40/2005 WELs (United Kingdom (UK), 1/2020). n-Butyl acetate

> STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.

Ethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. TWA: 734 mg/m³ 8 hours.

Xylene EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,

p- or mixed isomers] Absorbed through skin.

STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

2-butoxyethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 332 mg/m³ 15 minutes. TWA: 133 mg/m³ 8 hours.

Biological exposure indices

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Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	
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.
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.
2-butoxyethyl acetate	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
Xylene	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.
2-butoxyethyl acetate	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.

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SECTION 8: Exposure controls/personal protection No exposure indices known. **Xylene** 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. 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. No exposure indices known. Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] **Xylene** BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift. **Xylene** HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of Government regulation SR c. 355/2006 (Slovakia, 9/2020) **Xylene** [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. **Xylene** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift. 2-butoxyethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

Xylene

National institute of occupational safety and health (Spain, 4/2022) [Xylenes]

BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive

VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

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workdays.

No exposure indices known.	
Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/I, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
2-butoxyethyl acetate	SUVA (Switzerland, 1/2023) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
Xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

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.

DNELs/DMELs

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
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	_
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	35.7 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	300 mg/m ³	Workers	Local
	5.151	Inhalation			
	DNEL	Short term	600 mg/m ³	Workers	Local
	DNIEL	Inhalation Short term	600/3	\\/ankana	Customia
	DNEL	Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
	DINCE	Long term Dermai	bw/day	population	Oysternic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	12 mg/m ³	General	Systemic
	DINCE	Inhalation	12 1119/111	population	Oysternic
	DNEL	Long term	48 mg/m³	Workers	Systemic
		Inhalation	. 59,		-,-:
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
,			bw/day	population	- ,
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	63 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	367 mg/m ³	General	Local
		Inhalation		population	_
	DNEL	Long term	367 mg/m ³	General	Systemic
		Inhalation		population	

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 		-			
	DNEL	Short term	734 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	734 mg/m ³	General	Systemic
		Inhalation	Ŭ	population	,
	DNEL	Long term	734 mg/m ³	Workers	Local
	DIVEL	Inhalation	701 mg/m	WOINGIO	Local
	DNEL	Long term	734 mg/m³	Workers	Systemic
	DIVLL	Inhalation	7 54 mg/m	WOIKEIS	Oysternic
	DNE		1460 mal	Morkoro	Local
	DNEL	Short term	1468 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1468 mg/	Workers	Systemic
		Inhalation	m³		_
Naphtha (petroleum), hydrotreated	DNEL	Long term	0.41 mg/m ³	General	Systemic
light		Inhalation		population	
	DNEL	Long term	1.9 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	149 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	149 mg/kg	General	Systemic
		-	bw/day	population	•
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	640 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	837.5 mg/	Workers	Local
	J. 1LL	Inhalation	m ³		
	DNEL	Short term	1066.67	Workers	Local
	DINLL	Inhalation	mg/m³	WOIKEIS	Local
	DNEL	Short term	1152 mg/	General	Systemic
	DINLL	Inhalation	m ³	population	Systemic
	DNE				Cuatamia
	DNEL	Short term	1286.4 mg/	Workers	Systemic
	DNEL	Inhalation	m ³	\\/	0 : -
	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
	B. 151		bw/day		
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
		Inhalation	/ 0	population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation		population	_
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		-	bw/day	population	-
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation	J		,
	DNEL	Short term	442 mg/m ³	Workers	Local
		Inhalation		· -	
	DNEL	Short term	442 mg/m³	Workers	Systemic
	₽. ₹∟∟	Inhalation	<u>~</u> g/	., 011010	Systemio
2-butoxyethyl acetate	DNEL	Long term Oral	8.6 mg/kg	General	Systemic
2 Datoxyotilyi adetate	DINCL	Long term Oral	bw/day	population	Cystoniio
	DNEL	Short term Oral	36 mg/kg	General	Systemic
	DINEL	CHOIL GIIII OI al			Оузісініс
	חאבי	Chart tarm Dames!	bw/day	population	Systemia
	DNEL	Short term Dermal	72 mg/kg	General	Systemic
	חאורי	Long to Tab	bw/day	population	Cuetoreia
	DNEL	Long term	80 mg/m ³	General	Systemic
	ראובי	Inhalation	400 //-	population	Cymtau-!-
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
			bw/day	population	

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	DNEL	Short term Dermal	120 mg/kg	Workers	Systemic
			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
		Inhalation		population	
	DNEL	Short term	333 mg/m ³	Workers	Local
		Inhalation			
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.34 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.58 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.94 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	3.3 mg/m ³	Workers	Systemic
		Inhalation	_		

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection 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.

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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 F

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: Colourless.Odour: SlightOdour threshold: Not available.

Melting point/freezing point Initial boiling point and

boiling range

: Not available.

Ingredient name	°C	°F	Method
Ethyl acetate	77.1	170.8	
n-Butyl acetate	126	258.8	OECD 103

Flammability : Not available.

Lower and upper explosion : Lower: 0.8%

limit : Upper: 11.5%

Flash point : Closed cup: -1°C (30.2°F)

Auto-ignition temperature :

Ingredient name	°C	°F	Method
Naphtha (petroleum), hydrotreated light	280 to 470	536 to 878	DIN EN 14522
2-butoxyethyl acetate	340	644	

Decomposition temperature : Not available.

pH : 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			pour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Naphtha (petroleum), hydrotreated light	42.15358	5.6	OECD 104	357.48039	47.7	OECD 104

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SECTION 9: Physical and chemical properties

Relative density: Not available.Density: 1 g/cm³Vapour 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 hazardous reactions

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

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

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

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
_	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-

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

Acute toxicity estimates

Route	ATE value	
	22372.03 mg/kg 202.1 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	utyl acetate Eyes - Moderate irritant		-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
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	-

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SECTION 11: Toxicological information

2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500	-	
	Skin - Mild irritant	Rabbit	-	mg 500 mg	-	

Conclusion/Summary

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

Sensitisation

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

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

Carcinogenicity

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 Ethyl acetate Xylene	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation	-

Aspiration hazard

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated light Xylene	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 : May cause an allergic skin reaction.

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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SECTION 11: Toxicological information

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

: Once sensitized, a severe allergic reaction may occur when subsequently exposed General

to very low levels.

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
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
_	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	96 hours

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	High
Xylene	3.12	8.1 to 25.9	Low
2-butoxyethyl acetate	1.51	-	Low
propylidynetrimethanol	-0.47	<1	Low

12.4 Mobility in soil

Soil/water partition coefficient (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.

European waste catalogue (EWC) : 08.01.11

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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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, ethyl acetate)	(n-butyl N.O.S. (n-butyl N.O.S. (ethyl acetate,		FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID : Special provisions 640 (C)

Tunnel code (D/E)

: The product is only regulated as an environmentally hazardous substance when **ADN**

> transported in tank vessels. **Special provisions** 640 (C)

user

14.6 Special precautions for : 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]
ALPOLAN MARINE VARNISH 2420-80	≥90	3

Labelling

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

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SECTION 15: Regulatory information

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 I

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

Czech Republic

Storage code : I

Denmark

Danish fire class : I-1
MAL-code : 3-5

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, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

MAL-code: 3-5

Application: When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.

- Protective clothing 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. 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. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

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

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

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

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

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

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

Finland France

Social Security Code,

Articles L 461-1 to L 461-7

RG 84 : n-Butyl acetate **RG 84** Ethyl acetate Naphtha (petroleum), hydrotreated light **RG 84**

Xylene RG 4bis, RG 84

2-butoxyethyl acetate **RG 84**

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

Technical instruction on : TA-Luft Number 5.2.5: 89.4%

air quality control

<u>Italy</u>

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D.Lgs. 152/06 : Not determined.

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	•	Reproductive toxicity - Fertility		Harmful via breastfeeding
Naphtha (petroleum), hydrotreated light	Listed	Listed	-	-	-
xylene	-	-	-	Development 2	-

Water Discharge Policy

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/

toxicity or persistence). Decontamination effort: Z

Norway

Sweden

Flammable liquid class

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 55.9%

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.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

1272/20081

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]

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SECTION 16: Other information

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

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Category 2
tegory 3

Date of issue/ Date of

revision

: 29/02/2024

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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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