SAFETY DATA SHEET



TEKNOCOAT 1633-09

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

1.1 Product identifier

: TEKNOCOAT 1633-09 **Product name**

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. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 1B, H350 **STOT SE 3, H336** Aquatic Chronic 4, H413

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 : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements

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SECTION 2: Hazards identification

Prevention

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

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

sources. No smoking.

Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention.

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

articles

: Contains: n-Butyl acetate; Butan-1-ol and Formaldehyde

: Contains Formaldehyde. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Restricted to professional users.

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	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≥10 - ≤25	Aquatic Chronic 4, H413	-	[1]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥10 - ≤17	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤10	Aquatic Chronic 4, H413	-	[1]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≤2.1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[1] [2]

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SECTION 3: Co	mposition/informat	ion on	ingredients		
	Index: 601-022-00-9		Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	I	
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.2	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ Eye Irrit. 2, H319: $5\% \le C < 25\%$ Skin Sens. 1, H317: $C \ge 0.2\%$ STOT SE 3, H335: $C \ge 5\%$	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

Type

- [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

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

Get medical attention immediately. Call a poison center or physician. 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. 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

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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SECTION 4: First aid measures

Ingestion

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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 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:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

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. This material may cause long lasting harmful effects to aquatic life. 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 nitrogen oxides

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

retain product residue and can be hazardous. Do not reuse container.

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

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.
Butan-1-ol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol
	(all isomers except 2-methyl-2-propanol)]
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 150 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethanol	PEAK: 600 mg/m³, 4 times per shift, 15 minutes.
Ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 1000 ppm 8 hours.
	TWA: 1000 ppm o nours. TWA: 1900 mg/m³ 8 hours.
	CEIL: 2000 ppm, 3 times per shift, 60 minutes.
	CEIL: 3800 mg/m³, 3 times per shift, 60 minutes.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
Typone	(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/m ³ 8 hours.
Formaldehyde	Regulation on Limit Values - MAC (Austria, 4/2021). Skin
	sensitiser.
	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m³ 8 hours.

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CEIL: 0.6 ppm 15 minutes. CEIL: 0.74 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). [butyl acetate, all isomers] n-Butyl acetate STEL: 712 mg/m3 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Limit values (Belgium, 5/2021). Absorbed through skin. Butan-1-ol TWA: 20 ppm 8 hours. TWA: 62 mg/m³ 8 hours. Limit values (Belgium, 5/2021). Ethanol TWA: 1000 ppm 8 hours. TWA: 1907 mg/m³ 8 hours. Xylene Limit values (Belgium, 5/2021). [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. Formaldehyde Limit values (Belgium, 5/2021). Limit value - M: 0.3 ppm Limit value - M: 0.38 mg/m³ 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. Butan-1-ol Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 100 mg/m³ 8 hours. Limit value 15 min: 150 mg/m³ 15 minutes. Ministry of Labour and Social Policy and the Ministry of Ethanol Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 1000 mg/m³ 8 hours. **Xylene** Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/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 Formaldehyde Health - Ordinance No 10/2003. (Bulgaria, 6/2021). Skin sensitiser. Limit value 15 min: 0.5 ppm 15 minutes. Form: For the healthcare, funeral and embalming sectors Limit value 8 hours: 0.62 mg/m³ 8 hours. Form: For the healthcare, funeral and embalming sectors Limit value 15 min: 0.74 mg/m³ 15 minutes. Limit value 8 hours: 0.37 mg/m³ 8 hours. Limit value 15 min: 0.6 ppm 15 minutes. Limit value 8 hours: 0.3 ppm 8 hours. n-Butyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes.

STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours.

Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). Absorbed through skin.

STELV: 154 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes.

Ministry of Economy, Labour and Entrepreneurship ELV/

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Butan-1-ol

Ethanol

STELV (Croatia, 1/2021). ELV: 1900 mg/m³ 8 hours. ELV: 1000 ppm 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. Formaldehyde Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Skin sensitiser. ELV: 0.62 mg/m³ 8 hours. Form: health and funeral sector and embalming sector ELV: 0.5 ppm 8 hours. Form: health and funeral sector and embalming sector STELV: 0.74 mg/m³ 15 minutes. STELV: 0.6 ppm 15 minutes. 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). [Xylene, **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. EU OEL (Europe, 10/2019). Skin sensitiser. Formaldehyde STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate 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. Government regulation of Czech Republic PEL/NPK-P (Czech Butan-1-ol Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin. TWA: 300 mg/m³ 8 hours. TWA: 97.5 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 195 ppm 15 minutes. Ethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 1000 mg/m³ 8 hours. TWA: 522 ppm 8 hours. STEL: 3000 mg/m³ 15 minutes. STEL: 1566 ppm 15 minutes. **Xylene** Government regulation of Czech Republic PEL/NPK-P (Czech

Formaldehyde

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.

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [formaldehyd] Skin sensitiser.

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TWA: 0.5 mg/m³ 8 hours. Form: for health services, funeral services and embalming services

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STEL: 0.74 mg/m³ 15 minutes. Form: for health services, funeral services and embalming services

STEL: 0.59274 ppm 15 minutes. Form: for health services. funeral services and embalming services

TWA: 0.4005 ppm 8 hours. Form: for health services, funeral services and embalming services

TWA: 0.37 mg/m³ 8 hours. Form: outside the field of health services, funeral services and embalming services

TWA: 0.29637 ppm 8 hours. Form: outside the field of health services, funeral services and embalming services

STEL: 0.74 mg/m³ 15 minutes. Form: outside the field of health services, funeral services and embalming services

STEL: 0.59274 ppm 15 minutes. Form: outside the field of health services, funeral services and embalming services

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.

Working Environment Authority (Denmark, 6/2022). [Butanol, all isomers] Absorbed through skin.

CEIL: 50 ppm CEIL: 150 mg/m³

Working Environment Authority (Denmark, 6/2022).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 3800 mg/m³ 15 minutes. STEL: 2000 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). [Xylenes,

all isomers Absorbed through skin.

TWA: 25 ppm 8 hours. TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). Skin sensitiser. Carcinogen.

TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes.

Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022).

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

TWA: 241 mg/m³ 8 hours.

Butan-1-ol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin.

> TWA: 45 mg/m³ 8 hours. TWA: 15 ppm 8 hours. STEL: 90 mg/m³ 5 minutes. STEL: 30 ppm 5 minutes.

Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).

> TWA: 1000 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes.

Occupational exposure limits, Regulation No. 293 (Estonia,

12/2022). [Xylenes] Absorbed through skin.

TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m³ 15 minutes.

n-Butyl acetate

Ethanol

Butan-1-ol

Xylene

Formaldehyde

Ethanol

Xylene

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n-Butyl acetate

Formaldehyde

Xylene

TWA: 200 mg/m³ 8 hours. Formaldehyde

Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Skin sensitiser.

TWA: 0.5 ppm 8 hours. Form: In the healthcare, funeral and embalming sector

TWA: 0.62 mg/m³ 8 hours. Form: In the healthcare, funeral and embalming sector

TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 5 minutes. STEL: 0.74 mg/m³ 5 minutes.

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.

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, 10/2019). Skin sensitiser.

STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours.

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.

Institute of Occupational Health, Ministry of Social Affairs Butan-1-ol

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

TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. STEL: 75 ppm 15 minutes. STEL: 230 mg/m³ 15 minutes.

Ethanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 1300 ppm 15 minutes. STEL: 2500 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. TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

Formaldehyde Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Skin sensitiser.

TWA: 0.5 ppm 8 hours. Form: Healthcare and burials in the

embalming sector TWA: 0.3 ppm 8 hours.

TWA: 0.37 mg/m³ 8 hours. STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes.

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n-Butvl 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. Ministry of Labor (France, 10/2022). Notes: Permissible limit Butan-1-ol values (circulars) STEL: 50 ppm 15 minutes. STEL: 150 mg/m³ 15 minutes. Ethanol Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 5000 ppm 15 minutes. STEL: 9500 mg/m³ 15 minutes. **Xylene** Ministry of Labor (France, 10/2022), [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 442 mg/m3 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Ministry of Labor (France, 10/2022). Skin sensitiser. Notes: Formaldehyde Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 15 minutes. TWA: 0.5 ppm 8 hours. Form: the healthcare, funeral directors and embalming sectors TWA: 0.62 mg/m³ 8 hours. Form: the healthcare, funeral directors and embalming sectors STEL: 0.74 mg/m³ 15 minutes. TWA: 0.37 mg/m³ 8 hours. n-Butyl acetate DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. Butan-1-ol TRGS 900 OEL (Germany, 6/2022). TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³, 4 times per shift, 15 minutes. Ethanol TRGS 900 OEL (Germany, 6/2022). TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours.

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TWA: 380 mg/m³ 8 hours.

PEAK: 800 ppm, 4 times per shift, 15 minutes.

PEAK: 1520 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through **Xylene** 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)] Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. Formaldehyde TWA: 0.3 ppm 8 hours. CEIL: 1 ml/m3 TWA: 0.37 mg/m³ 8 hours. CEIL: 1.2 mg/m3 PEAK: 0.74 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.6 ppm, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. PEAK: 0.6 ppm 15 minutes. PEAK: 0.74 mg/m³ 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. Butan-1-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes. Ethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. Presidential Decree 307/1986: Occupational exposure limit **Xylene** 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. Formaldehyde Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Skin sensitiser. TWA: 0.62 ppm 8 hours. Form: sectors of health care, funerals and embalming STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.5 mg/m³ 8 hours. Form: sectors of health care, funerals and embalming 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. Butan-1-ol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 45 mg/m³ 8 hours.

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PEAK: 90 mg/m³ 15 minutes. Ethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 1900 mg/m³ 8 hours. PEAK: 3800 mg/m³ 15 minutes. PEAK: 2000 ppm 15 minutes. TWA: 1000 ppm 8 hours. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture 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. Formaldehyde 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. PEAK: 0.6 mg/m³ 15 minutes. Form: in the healthcare sector, funerals and embalming TWA: 0.6 mg/m³ 8 hours. Form: in the healthcare sector, funerals and embalming PEAK: 0.5 ppm 15 minutes. Form: in the healthcare sector, funerals and embalming TWA: 0.5 ppm 8 hours. Form: in the healthcare sector, funerals and embalming TWA: 0.37 mg/m³ 8 hours. PEAK: 0.74 mg/m³ 15 minutes. PEAK: 0.6 ppm 15 minutes. TWA: 0.3 ppm 8 hours. n-Butyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers] TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Butan-1-ol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 150 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 80 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ethanol TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **Xylene** Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Formaldehyde Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate 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.

Butan-1-ol NAOSH (Ireland, 5/2021). Notes: Advisory Occupational

Exposure Limit Values (OELVs) OELV-8hr: 20 ppm 8 hours.

Ethanol NAOSH (Ireland, 5/2021). Notes: Advisory Occupational

Exposure Limit Values (OELVs)

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OELV-15min: 1000 ppm 15 minutes. **Xylene**

NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit

Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m3 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m³ 15 minutes.

Formaldehyde NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 0.3 ppm 8 hours. OELV-15min: 0.6 ppm 15 minutes. OELV-15min: 0.738 mg/m³ 15 minutes. OELV-8hr: 0.37 mg/m³ 8 hours.

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.

Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

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

8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m³ 15 minutes.

Formaldehyde EU OEL (Europe, 10/2019). Skin sensitiser.

> STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours.

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

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

Butan-1-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

[Butylalcohol]

TWA: 10 mg/m³ 8 hours.

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

TWA: 1000 mg/m³ 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.

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

Skin sensitiser.

STEL: 0.5 ppm 15 minutes. Form: For the healthcare, funeral and

embalming sectors

TWA: 0.62 mg/m³ 8 hours. Form: For the healthcare, funeral and

embalming sectors

TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes.

TWA: 0.3 ppm 8 hours.

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Xylene

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butvl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Butan-1-ol Absorbed through skin. TWA: 45 mg/m³ 8 hours. TWA: 15 ppm 8 hours. CEIL: 90 mg/m³ CEIL: 30 ppm Ethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 1000 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). **Xylene** [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin Formaldehyde sensitiser. Inhalation sensitiser. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Formaldehyde Grand-Duchy Regulation 2016. Carcinogens or mutagens agents. Annex III (Luxembourg, 3/2021). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. **Xylene** EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m3 15 minutes. Ministry of Health (Malta, 1/2021). Skin sensitiser. Formaldehyde TWA: 0.5 ppm 8 hours. TWA: 0.62 mg/m³ 8 hours.

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SECTION 8: Exposure controls/personal protection 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 Ethanol (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 260 mg/m3 8 hours. STEL,15-min: 1900 mg/m³ 15 minutes. STEL,15-min: 1000 ppm 15 minutes. OEL, 8-h TWA: 137 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. Ministry of Social Affairs and Employment, Legal limit values Formaldehyde (Netherlands, 12/2022). Skin sensitiser. OEL, 8-h TWA: 0.15 mg/m3 8 hours. STEL,15-min: 0.5 mg/m³ 15 minutes. STEL,15-min: 0.41 ppm 15 minutes. OEL, 8-h TWA: 0.12 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). n-Butyl acetate 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. Butan-1-ol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. CEIL: 75 mg/m³ CEIL: 25 ppm FOR-2011-12-06-1358 (Norway, 12/2022). Ethanol TWA: 500 ppm 8 hours. TWA: 950 mg/m³ 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/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Formaldehyde Carcinogen. Notes: binding limit value TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Carcinogen. CEIL: 1 ppm CEIL: 1.2 mg/m³ STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes. n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes. Butan-1-ol Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible

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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: 50 mg/m³ 8 hours. STEL: 150 mg/m³ 15 minutes.

Ethanol 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: 1900 mg/m³ 8 hours.

Xylene

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the 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.

Formaldehyde 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: 0.37 mg/m³ 8 hours. STEL: 0.74 mg/m³ 15 minutes.

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

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

Butan-1-ol Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 20 ppm 8 hours.

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

STEL: 1000 ppm 15 minutes.

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

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

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

sensitiser. CEIL: 0.3 ppm

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

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.

Butan-1-ol HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021).

VLA: 100 mg/m³ 8 hours. VLA: 33 ppm 8 hours.

Short term: 200 mg/m³ 15 minutes. Short term: 66 ppm 15 minutes.

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

additions (Romania, 3/2021). VLA: 1900 mg/m³ 8 hours.

VLA: 1000 ppm 8 hours.

Short term: 9500 mg/m³ 15 minutes. Short term: 5000 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.

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

additions (Romania, 3/2021). Skin sensitiser.

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Short term: 0.5 mg/m³ 15 minutes. Form: for the healthcare, funeral and embalming services sector VLA: 0.62 ppm 8 hours. Form: for the healthcare, funeral and embalming services sector VLA: 0.37 mg/m³ 8 hours. VLA: 0.3 ppm 8 hours. Short term: 0.74 mg/m³ 15 minutes. Short term: 0.6 ppm 15 minutes. n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m³. (Butvl 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. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Butan-1-ol [Butyl alkohols] TWA: 310 mg/m³, (Butyl alkohols) 8 hours. TWA: 100 ppm, (Butyl alkohols) 8 hours. Ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 960 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1920 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. **Xylene** Government regulation SR c. 355/2006 (Slovakia, 9/2020). [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. Government regulation SR c. 356/2006 (Slovakia, 9/2020). Skin Formaldehyde sensitiser. Technical guidance value: 0.37 mg/m³ 8 hours. Technical guidance value: 0.3 ppm 8 hours. Regulation on protection of workers from the risks related to n-Butyl acetate 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. Butan-1-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 310 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 310 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Ethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 960 mg/m³ 8 hours. TWA: 500 ppm 8 hours. KTV: 1920 mg/m³, 4 times per shift, 15 minutes. KTV: 1000 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. Formaldehyde Regulation on the protection of workers from the risks related to exposure to carcinogens or mutagens (Slovenia, 7/2022). Absorbed through skin. Skin sensitiser. Peak: 0.6 ml/m3, 4 times per shift, 15 minutes.

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TWA: 0.3 ml/m3 8 hours.

Peak: 0.74 mg/m³, 4 times per shift, 15 minutes.

n-Butyl acetate

National institute of occupational safety and health (Spain, 4/2022).

TWA: 0.37 mg/m³ 8 hours.

National institute of occupational safety and health (Spain, 4/2022).

TWA: 30 ppm 6 nours.
TWA: 241 mg/m³ 8 hours.
STEL: 150 ppm 15 minutes.
STEL: 723 mg/m³ 15 minutes.

Butan-1-ol National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.

STEL: 50 ppm 15 minutes. STEL: 154 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 61 mg/m³ 8 hours.

Ethanol National institute of occupational safety and health (Spain, 4/2022).

STEL: 1000 ppm 15 minutes. STEL: 1910 mg/m³ 15 minutes.

Xylene National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin.

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

Formaldehyde National institute of occupational safety and health (Spain,

4/2022). Skin sensitiser.

STEL: 0.6 ppm 15 minutes.

STEL: 0.74 mg/m³ 15 minutes.

TWA: 0.37 mg/m³ 8 hours.

TWA: 0.3 ppm 8 hours.

n-Butyl acetate Work environment authority Regulation 2018:1 (Sweden,

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.

Butan-1-ol Work environment authority Regulation 2018:1 (Sweden,

9/2021). Absorbed through skin.

TWA: 15 ppm 8 hours. TWA: 45 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 90 mg/m³ 15 minutes.

Ethanol Work environment authority Regulation 2018:1 (Sweden,

9/2021).

TWA: 500 ppm 8 hours. TWA: 1000 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1900 mg/m³ 15 minutes.

Xylene Work environment authority Regulation 2018:1 (Sweden,

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.

Formaldehyde Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Skin sensitiser.

TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes.

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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.

Butan-1-ol SUVA (Switzerland, 1/2023). TWA: 100 ppm 8 hours.

TWA: 310 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 310 mg/m³ 15 minutes.

Ethanol SUVA (Switzerland, 1/2023). TWA: 500 ppm 8 hours.

> TWA: 960 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1920 mg/m³ 15 minutes.

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.

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

> TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes.

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

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

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Butan-1-ol

through skin.

STEL: 154 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

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

> TWA: 1000 ppm 8 hours. TWA: 1920 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.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Ethylbenzene

through skin.

STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.

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

> STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). 1,2,4-trimethylbenzene

[trimethylbenzenes, all isomers or mixtures]

TWA: 25 ppm 8 hours. TWA: 125 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.
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.	
Butan-1-ol	DFG BEI-values list (Germany, 7/2022) BEI: 2 mg/g creatinine, 1-butanol [in urine]. Sampling time: at the beginning of the next shift. BEI: 10 mg/g creatinine, 1-butanol [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 2 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: at the beginning of the next shift. BEI: 10 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.
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.
No exposure indices known.	

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Butan-1-ol

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

BEI: 15 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift.

BEI: 10 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift.

BEI: 3 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift.

BEI: 2 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift.

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

BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].

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

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.

Sampling time: at the end of the shift.

No exposure indices known.

Xylene

Xylene

No exposure indices known.

Xylene

Xylene

Butan-1-ol

Xylene

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

BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.

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 shift.

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

BLV: 15.34 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 3.13 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift.

BLV: 2 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift.

Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers]

BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work 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.

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Butan-1-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 10 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift. BAT: 2 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: before the 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. **Xylene** National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift. No exposure indices known. SUVA (Switzerland, 1/2023) Butan-1-ol BEI: 2 mg/g creatinine, n-butanol [in urine]. Sampling time: before the next shift or 4pm.

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

BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.

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

Xylene

Xylene

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	Workers	Systemic
			bw/day		
	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	Inhalation			l
	DNEL	Short term	600 mg/m ³	Workers	Local
	DATE	Inhalation	000 / 3	1	
	DNEL	Short term	600 mg/m ³	Workers	Systemic
		Inhalation			
l		I	l		l l

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	p	61 6 61 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 7 mg/kg	population Workers	Systemic
	DIVLL	Long term berman	bw/day	VVOIRCIS	Oysternio
	DNEL	Long term	12 mg/m³	General	Systemic
	DNE	Inhalation	40	population	0
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
			kg bw/day	population	_
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
	DNEL	Long term	kg bw/day 55.357 mg/	population General	Systemic
		Inhalation	m ³	population	
	DNEL	Long term	155 mg/m ³	General	Local
	DNEL	Inhalation Long term	310 mg/m³	population Workers	Local
	DINLL	Inhalation	5 TO HIG/III	VVOIRCIS	Local
Ethanol	DNEL	Long term Oral	87 mg/kg	General	Systemic
	DNE	1	bw/day	population	0
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Dermal	343 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 950 mg/m³	General	Local
	D1122	Inhalation	000 1119/111	population	20041
	DNEL	Long term	950 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	1900 mg/	Workers	Local
	DINEL	Inhalation	m ³	VVOIKEIS	Local
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
	DNE	Inhalation	000	population	1 1
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m ³	General	Systemic
	DNEL	Inhalation Long term Dermal	125 mg/kg	population General	Systemic
	D.1LL	Long tolli Dollila	bw/day	population	5,0.0.1110
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 221 mg/m³	Workers	Systemic
	DINCL	Inhalation	22 i iiig/iii	A A OI VGI 2	Oystellill
	DNEL	Short term	442 mg/m ³	Workers	Local
	DAIEI	Inhalation	440 / 2	NA 7 1	
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
Formaldehyde	DNEL	Long term	0.375 mg/	Workers	Local
•		Inhalation	m³		
	DNEL	Short term Inhalation	0.75 mg/m ³	Workers	Local
	DNEL	Long term Dermal	12 µg/cm²	General	Local
			. 0	population	
	DNEL	Long term Dermal	37 µg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.1 mg/m ³	General population	Local
	DNEL	Long term	3.2 mg/m³	General	Systemic
		Inhalation		population	-

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SECTION 8: Exposure controls/personal protection DNEL Long term Oral 4.1 mg/kg General Systemic bw/day population **DNEL** Long term 9 mg/m³ Workers Systemic Inhalation DNEL Long term Dermal 102 mg/kg General Systemic bw/day population 240 mg/kg DNEL Long term Dermal Workers Systemic bw/day

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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.

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 : Various : Slight **Odour**

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
Ethanol	78.29	172.9	
Butan-1-ol	119	246.2	OECD 103

Flammability : Not available.

Lower and upper explosion

limit

: Lower: 0.8% (xylene) Upper: 19% (ethanol)

Flash point : Closed cup: 25°C (77°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
Butan-1-ol	355	671	EU A.15
n-Butyl acetate	415	779	EU A.15

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

Solubility(ies)

Not available.

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

water

Vapour pressure

	Va	Vapour Pressure at 20°C			apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethanol	42.94865	5.7				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			

Relative density : Not available. **Density** : 1 g/cm³ Vapour density : Not available. : Not available. **Explosive properties** : Not available. **Oxidising properties**

Particle characteristics

Median particle size : Not applicable.

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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	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
	7043.75 mg/kg 65888.52 mg/kg
Inhalation (gases)	603968.94 ppm 883.87 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	
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
				uL	
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

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	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				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	-
				mg	
Formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1	-
				ppm	
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150	-
				ug I	
	Skin - Mild irritant	Rabbit	-	540 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Severe irritant	Human	-	0.01 %	-
	Skin - Severe irritant	Rabbit	-	0.8 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	

Conclusion/Summary

Sensitisation

Conclusion/Summary

Mutagenicity

Conclusion/Summary

Carcinogenicity

Teratogenicity

Conclusion/Summary

Reproductive toxicity

Conclusion/Summary

Conclusion/Summary

: Causes skin irritation.

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

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

: May cause cancer. Risk of cancer depends on duration and level of exposure.

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

Limmary : 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
Butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Formaldehyde	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	-

Aspiration hazard

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SECTION 11: Toxicological information

Product/ingredient name	Result	
Xylene	ASPIRATION HAZARD - Category 1	

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

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

dizziness.

Skin contact : Causes skin irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

> pain 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:

pain or irritation

redness

blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains

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

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

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.

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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
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1730000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki</i> - Larvae	12 weeks
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.788 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 5800 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine water	Algae - <i>Isochrysis galbana</i> - Exponential growth phase	96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

Conclusion/Summary: May cause long lasting harmful effects to aquatic life.

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
Butan-1-ol	1	-	Low
Ethanol	-0.35	-	Low
Xylene	3.12	8.1 to 25.9	Low

12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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

	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, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (xylene)	FLAMMABLE LIQUID, N.O.S. (xylene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID

: Tunnel code (D/E)

ADN

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

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

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

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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]
TEKNOCOAT 1633-09	≥90	3
		28
Formaldehyde	<0.2	28
		72

Labelling : Restricted to professional users.

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

National regulations

<u>Austria</u>

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

Czech Republic

Storage code : II

Denmark

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

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Ingredient name	Annex I Section A	Annex I Section B
Ethylbenzene	Listed	-
Formaldehyde	Listed	Muta. 2, H341
		Carc. 1B, H350

MAL-code

: 5-6

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: 5-6

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 non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in existing* spray booths, if the operator is outside the spray zone. 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. 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 protective clothing must be worn.

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

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*See Regulations.

This product contains low-boiling point liquids. Any respiratory protective equipment Low-boiling liquids

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

Carcinogenic waste : Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

Finland France

Social Security Code, Articles L 461-1 to L 461-7

RG 84 : n-Butyl acetate **RG 84** Butan-1-ol Ethanol **RG 84**

Xylene RG 4bis, RG 84

Formaldehvde RG 43, RG 43bis, RG 84

Reinforced medical

surveillance

Germany

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

medical surveillance: not applicable

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

: 3

Technical instruction on air quality control

TA-Luft Number 5.2.5: 73.2%

TA-Luft Class I - Number 5.2.5: 0.3% TA-Luft Class II - Number 5.2.7.1.1: 0.2%

TA-Luft Number 5.2.7.1.1: 0.1%

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed
xylene	-	-	-	Development 2	-
Naphtha (petroleum),	Listed	Listed	-	-	-
hydrodesulfurized					
heavy					
formaldehyde	Listed	-	-	-	-

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

: 2a

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 34.1%

International regulations

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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.

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Carc. 1B, H350	Calculation method
STOT SÉ 3, H336	Calculation method
Aquatic Chronic 4, H413	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

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SECTION 16: Other information

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 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

ASPIRATION HAZARD - Category 1 Asp. Tox. 1 Carc. 1B CARCINOGENICITY - Category 1B

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 Muta. 2 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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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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