

SAFETY DATA SHEET



TEKNOCOAT 1688-22

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

1.1 Product identifier

Product name : TEKNOCOAT 1688-22

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225

Eye Irrit. 2, H319

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.
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 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.

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.

SECTION 2: Hazards identification

Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: Ethyl acetate and n-Butyl acetate
Supplemental label elements	:
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
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
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]
Naphtha (petroleum), hydrotreated light	EC: 265-151-9 CAS: 64742-49-0 Index: 649-328-00-1	≥10 - <25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	-	[1]

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

Type

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SECTION 3: Composition/information on ingredients

[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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : 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
nitrogen oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spill 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.

SECTION 6: Accidental release measures

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

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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

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

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

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
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours. PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 400 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m ³ 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. CEIL: 2000 ppm, 3 times per shift, 60 minutes. CEIL: 3800 mg/m ³ , 3 times per shift, 60 minutes.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes.
Ethyl acetate	Limit values (Belgium, 5/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethanol	Limit values (Belgium, 5/2021). TWA: 1000 ppm 8 hours. TWA: 1907 mg/m ³ 8 hours.
Propan-2-ol	Limit values (Belgium, 5/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m ³ 15 minutes.
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/m ³ 8 hours. Limit value 15 min: 400 ppm 15 minutes. Limit value 15 min: 1468 mg/m ³ 15 minutes. Limit value 8 hours: 200 ppm 8 hours.
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 241 mg/m ³ 8 hours. Limit value 15 min: 723 mg/m ³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.
Ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 1000 mg/m ³ 8 hours.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

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Ethyl acetate	<p>Limit value 8 hours: 980 mg/m³ 8 hours. Limit value 15 min: 1225 mg/m³ 15 minutes.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ 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.</p>
n-Butyl acetate	<p>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.</p>
Ethanol	<p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). ELV: 1900 mg/m³ 8 hours. ELV: 1000 ppm 8 hours.</p>
Propan-2-ol	<p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 1250 mg/m³ 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m³ 8 hours. ELV: 400 ppm 8 hours.</p>
Ethyl acetate	<p>Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.</p>
n-Butyl acetate	<p>Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.</p>
Ethyl acetate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethanol	<p>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.</p>
Propan-2-ol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 500 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>

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Ethyl acetate	Working Environment Authority (Denmark, 6/2022). TWA: 150 ppm 8 hours. TWA: 540 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
n-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
Ethanol	Working Environment Authority (Denmark, 6/2022). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. STEL: 3800 mg/m ³ 15 minutes. STEL: 2000 ppm 15 minutes.
Propan-2-ol	Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 490 mg/m ³ 8 hours. STEL: 980 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
Ethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 500 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
Ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 1000 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes.
Propan-2-ol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.

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Ethyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 730 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1470 mg/m ³ 15 minutes.
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m ³ 15 minutes.
Ethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. STEL: 1300 ppm 15 minutes. STEL: 2500 mg/m ³ 15 minutes.
Propan-2-ol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 620 mg/m ³ 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/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 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/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes.
Ethanol	Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. STEL: 5000 ppm 15 minutes. STEL: 9500 mg/m ³ 15 minutes.
Propan-2-ol	Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) STEL: 400 ppm 15 minutes. STEL: 980 mg/m ³ 15 minutes.
Ethyl acetate	TRGS 900 OEL (Germany, 6/2022). TWA: 730 mg/m ³ 8 hours. PEAK: 1460 mg/m ³ 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/m ³ 8 hours. PEAK: 1500 mg/m ³ , 4 times per shift, 15 minutes.
n-Butyl acetate	DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m ³ 8 hours. PEAK: 960 mg/m ³ , 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m ³ 8 hours. TWA: 62 ppm 8 hours.

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Ethanol	<p>PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. 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. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³, 4 times per shift, 15 minutes.</p>
Propan-2-ol	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 500 mg/m³ 8 hours. PEAK: 1000 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: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³, 4 times per shift, 15 minutes.</p>
Ethyl acetate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethanol	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.</p>
Propan-2-ol	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 400 ppm 8 hours. TWA: 980 mg/m³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethanol	<p>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.</p>
Propan-2-ol	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 500 mg/m³ 8 hours.</p>

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Ethyl acetate	PEAK: 1000 mg/m ³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 540 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers] TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
Ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
Ethyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m ³ 15 minutes. OELV-8hr: 734 mg/m ³ 8 hours.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m ³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m ³ 15 minutes.
Ethanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-15min: 1000 ppm 15 minutes.
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes.
Ethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Short Term: 400 ppm 15 minutes. Short Term: 1468 mg/m ³ 15 minutes. 8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 200 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 54 ppm 8 hours.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 241 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours.
Ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 1000 mg/m ³ 8 hours.
Propan-2-ol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 350 mg/m ³ 8 hours. STEL: 600 mg/m ³ 15 minutes.

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Ethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 500 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m ³ CEIL: 300 ppm
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
Ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 1000 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes.
Propan-2-ol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes.
Ethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). STEL, 15-min: 1468 mg/m ³ 15 minutes. OEL, 8-h TWA: 734 mg/m ³ 8 hours. STEL, 15-min: 400 ppm 15 minutes. OEL, 8-h TWA: 200 ppm 8 hours.
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m ³ 8 hours. STEL, 15-min: 723 mg/m ³ 15 minutes. STEL, 15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.
Ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 260 mg/m ³ 8 hours. STEL, 15-min: 1900 mg/m ³ 15 minutes. STEL, 15-min: 1000 ppm 15 minutes. OEL, 8-h TWA: 137 ppm 8 hours.

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Ethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethanol	FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 500 ppm 8 hours. TWA: 950 mg/m ³ 8 hours.
Propan-2-ol	FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 100 ppm 8 hours. TWA: 245 mg/m ³ 8 hours.
Ethyl 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: 734 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 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/m ³ 8 hours. STEL: 720 mg/m ³ 15 minutes.
Naphtha (petroleum), hydrotreated light	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/m ³ 8 hours. STEL: 1500 mg/m ³ 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/m ³ 8 hours.
Propan-2-ol	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: 900 mg/m ³ 8 hours. STEL: 1200 mg/m ³ 15 minutes.
Ethyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours.
n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Ethanol	Portuguese Institute of Quality (Portugal, 11/2014). STEL: 1000 ppm 15 minutes.
Propan-2-ol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 200 ppm 8 hours.

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Ethyl acetate	<p>STEL: 400 ppm 15 minutes.</p> <p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</p> <p>VLA: 734 mg/m³ 8 hours.</p> <p>VLA: 200 ppm 8 hours.</p> <p>Short term: 1468 mg/m³ 15 minutes.</p> <p>Short term: 400 ppm 15 minutes.</p>
n-Butyl acetate	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</p> <p>VLA: 241 mg/m³ 8 hours.</p> <p>VLA: 50 ppm 8 hours.</p> <p>Short term: 723 mg/m³ 15 minutes.</p> <p>Short term: 150 ppm 15 minutes.</p>
Ethanol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</p> <p>VLA: 1900 mg/m³ 8 hours.</p> <p>VLA: 1000 ppm 8 hours.</p> <p>Short term: 9500 mg/m³ 15 minutes.</p> <p>Short term: 5000 ppm 15 minutes.</p>
Propan-2-ol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</p> <p>VLA: 200 mg/m³ 8 hours.</p> <p>VLA: 81 ppm 8 hours.</p> <p>Short term: 500 mg/m³ 15 minutes.</p> <p>Short term: 203 ppm 15 minutes.</p>
Ethyl acetate	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</p> <p>TWA: 734 mg/m³ 8 hours.</p> <p>TWA: 200 ppm 8 hours.</p> <p>STEL: 1468 mg/m³ 15 minutes.</p> <p>STEL: 400 ppm 15 minutes.</p>
n-Butyl acetate	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</p> <p>[Butyl acetates]</p> <p>TWA: 241 mg/m³, (Butyl acetates) 8 hours.</p> <p>TWA: 50 ppm, (Butyl acetates) 8 hours.</p> <p>STEL: 723 mg/m³, (Butyl acetates) 15 minutes.</p> <p>STEL: 150 ppm, (Butyl acetates) 15 minutes.</p>
Ethanol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</p> <p>TWA: 960 mg/m³ 8 hours.</p> <p>TWA: 500 ppm 8 hours.</p> <p>STEL: 1920 mg/m³ 15 minutes.</p> <p>STEL: 1000 ppm 15 minutes.</p>
Propan-2-ol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</p> <p>TWA: 500 mg/m³ 8 hours.</p> <p>TWA: 200 ppm 8 hours.</p> <p>STEL: 1000 mg/m³ 15 minutes.</p> <p>STEL: 400 ppm 15 minutes.</p>
Ethyl acetate	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</p> <p>TWA: 734 mg/m³ 8 hours.</p> <p>TWA: 200 ppm 8 hours.</p> <p>KTV: 1468 mg/m³, 4 times per shift, 15 minutes.</p> <p>KTV: 400 ppm, 4 times per shift, 15 minutes.</p>
n-Butyl acetate	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</p> <p>TWA: 241 mg/m³ 8 hours.</p> <p>TWA: 50 ppm 8 hours.</p> <p>KTV: 723 mg/m³, 4 times per shift, 15 minutes.</p> <p>KTV: 150 ppm, 4 times per shift, 15 minutes.</p>
Ethanol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</p> <p>TWA: 960 mg/m³ 8 hours.</p> <p>TWA: 500 ppm 8 hours.</p> <p>KTV: 1920 mg/m³, 4 times per shift, 15 minutes.</p>

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Propan-2-ol	<p>KTV: 1000 ppm, 4 times per shift, 15 minutes.</p> <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</p> <p>TWA: 500 mg/m³ 8 hours.</p> <p>TWA: 200 ppm 8 hours.</p> <p>KTV: 1000 mg/m³, 4 times per shift, 15 minutes.</p>
Ethyl acetate	<p>KTV: 400 ppm, 4 times per shift, 15 minutes.</p> <p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 200 ppm 8 hours.</p> <p>TWA: 734 mg/m³ 8 hours.</p> <p>STEL: 1468 mg/m³ 15 minutes.</p> <p>STEL: 400 ppm 15 minutes.</p>
n-Butyl acetate	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 50 ppm 8 hours.</p> <p>TWA: 241 mg/m³ 8 hours.</p> <p>STEL: 150 ppm 15 minutes.</p> <p>STEL: 723 mg/m³ 15 minutes.</p>
Ethanol	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>STEL: 1000 ppm 15 minutes.</p> <p>STEL: 1910 mg/m³ 15 minutes.</p>
Propan-2-ol	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 200 ppm 8 hours.</p> <p>TWA: 500 mg/m³ 8 hours.</p> <p>STEL: 400 ppm 15 minutes.</p> <p>STEL: 1000 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p> <p>TWA: 150 ppm 8 hours.</p> <p>TWA: 550 mg/m³ 8 hours.</p> <p>STEL: 300 ppm 15 minutes.</p> <p>STEL: 1100 mg/m³ 15 minutes.</p>
n-Butyl acetate	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate]</p> <p>TWA: 50 ppm 8 hours.</p> <p>TWA: 241 mg/m³ 8 hours.</p> <p>STEL: 150 ppm 15 minutes.</p> <p>STEL: 723 mg/m³ 15 minutes.</p>
Ethanol	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p> <p>TWA: 500 ppm 8 hours.</p> <p>TWA: 1000 mg/m³ 8 hours.</p> <p>STEL: 1000 ppm 15 minutes.</p> <p>STEL: 1900 mg/m³ 15 minutes.</p>
Propan-2-ol	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p> <p>TWA: 150 ppm 8 hours.</p> <p>TWA: 350 mg/m³ 8 hours.</p> <p>STEL: 250 ppm 15 minutes.</p> <p>STEL: 600 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>SUVA (Switzerland, 1/2023).</p> <p>STEL: 400 ppm 15 minutes.</p> <p>STEL: 1460 mg/m³ 15 minutes.</p> <p>TWA: 200 ppm 8 hours.</p> <p>TWA: 730 mg/m³ 8 hours.</p>
n-Butyl acetate	<p>SUVA (Switzerland, 1/2023).</p> <p>TWA: 50 ppm 8 hours.</p> <p>TWA: 240 mg/m³ 8 hours.</p> <p>STEL: 150 ppm 15 minutes.</p> <p>STEL: 720 mg/m³ 15 minutes.</p>
Naphtha (petroleum), hydrotreated light	<p>SUVA (Switzerland, 1/2023).</p>

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Ethanol	<p>TWA: 500 ppm 8 hours. TWA: 2000 mg/m³ 8 hours. 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.</p>
Propan-2-ol	<p>SUVA (Switzerland, 1/2023). TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethanol	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m³ 8 hours.</p>
Propan-2-ol	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m³ 8 hours. TWA: 400 ppm 8 hours.</p>
Butanone	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 899 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours.</p>
Xylene	<p>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.</p>
Ethylbenzene	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.</p>

Biological exposure indices

Product/ingredient name	Exposure indices
<p>No exposure indices known.</p> <p>No exposure indices known.</p> <p>No exposure indices known.</p> <p>Propan-2-ol</p>	<p>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift.</p>

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No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 Propan-2-ol

BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

DFG BEI-values list (Germany, 7/2022)

BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

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

BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.
 Propan-2-ol

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

BEI: 430 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.

No exposure indices known.
 Propan-2-ol

NAOSH (Ireland, 1/2011)

BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.

No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 No exposure indices known.
 Propan-2-ol

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the end of the workweek.

Propan-2-ol

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

No exposure indices known.
 Propan-2-ol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.

BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

Propan-2-ol

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

VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.

SECTION 8: Exposure controls/personal protection

No exposure indices known.	
Propan-2-ol	SUVA (Switzerland, 1/2023) BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.
Butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post 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
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Inhalation	367 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m ³	General population	Local
	DNEL	Short term Inhalation	734 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/m ³	Workers	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
n-Butyl acetate	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Short term	300 mg/m ³	General	Local
	DNEL	Short term	300 mg/m ³	General	Local

SECTION 8: Exposure controls/personal protection

Naphtha (petroleum), hydrotreated light	DNEL	Inhalation Short term	300 mg/m ³	population General population	Systemic
	DNEL	Inhalation Long term	300 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	7 mg/kg bw/day	Workers	Systemic
	DNEL	Dermal Long term	12 mg/m ³	General population	Systemic
	DNEL	Inhalation Long term	48 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	0.41 mg/m ³	General population	Systemic
	DNEL	Inhalation Long term	1.9 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	149 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	149 mg/kg bw/day	General population	Systemic
	DNEL	Inhalation Long term	178.57 mg/m ³	General population	Local
	DNEL	Inhalation Short term	640 mg/m ³	General population	Local
	DNEL	Inhalation Long term	837.5 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	1066.67 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	1152 mg/m ³	General population	Systemic
	DNEL	Inhalation Short term	1286.4 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	300 mg/kg bw/day	Workers	Systemic
Ethanol	DNEL	Dermal Long term	87 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	114 mg/m ³	General population	Systemic
	DNEL	Inhalation Long term	206 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	343 mg/kg bw/day	Workers	Systemic
	DNEL	Dermal Long term	950 mg/m ³	General population	Local
Propan-2-ol	DNEL	Inhalation Short term	950 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	1900 mg/m ³	Workers	Local
	DNEL	Inhalation Long term	26 mg/kg bw/day	General population	Systemic
	DNEL	Inhalation Long term	89 mg/m ³	General population	Systemic
	DNEL	Dermal Long term	319 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	500 mg/m ³	Workers	Systemic
	DNEL	Dermal Long term	888 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

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 : Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range :

Ingredient name	°C	°F	Method
Ethyl acetate	77.1	170.8	
Ethanol	78.29	172.9	

Flammability : Not available.

Lower and upper explosion limit : Lower: 1.05%
Upper: 19%

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
n-Butyl acetate	415	779	EU A.15

Decomposition temperature : Not available.

pH : Not applicable.

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Ethanol	42.94865	5.7				

Relative density : Not available.

Density : 0.9 g/cm³

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of 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

SECTION 10: Stability and reactivity

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
Ethyl acetate n-Butyl acetate	LD50 Oral	Rat	5620 mg/kg	-
	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
Ethanol	LD50 Oral	Rat	10760 mg/kg	-
	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

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

Acute toxicity estimates

Route	ATE value
Not available.	

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	-
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	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	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
Propan-2-ol	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

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

Sensitisation

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

Mutagenicity

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

Carcinogenicity

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)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Ethyl acetate	Category 3	-	Narcotic effects
n-Butyl acetate	Category 3	-	Narcotic effects
Propan-2-ol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

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** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

Short term exposure

- Potential immediate effects** : Not available.
- 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** : 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

Date of issue/Date of revision : 12/03/2024	Date of previous issue : No previous validation	Version : 1	23/30
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SECTION 11: Toxicological information

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
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - <i>Gammarus pulex</i>	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - <i>Heteropneustes fossilis</i>	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
		Crustaceans - <i>Artemia salina</i>	48 hours
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Fish - <i>Pimephales promelas</i>	96 hours
Ethanol	Acute LC50 18000 µg/l Fresh water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 17.921 mg/l Marine water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 2000 µg/l Fresh water	Crustaceans - <i>Artemia franciscana</i> - Larvae	48 hours
	Acute LC50 25500 µg/l Marine water	Fish - <i>Oncorhynchus mykiss</i>	4 days
	Acute LC50 42000 µg/l Fresh water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 100 µl/L Fresh water	Fish - <i>Gambusia holbrooki</i> - Larvae	12 weeks
Propan-2-ol	Chronic NOEC 0.375 µl/L Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 10100 mg/l Fresh water	Crustaceans - <i>Crangon crangon</i>	48 hours
	Acute LC50 1400000 µg/l Marine water	Fish - <i>Rasbora heteromorpha</i>	96 hours
	Acute LC50 4200000 µg/l Fresh water		

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

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethyl acetate	0.68	30	Low
n-Butyl acetate	2.3	-	Low
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	High
Ethanol	-0.35	-	Low
Propan-2-ol	0.05	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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.

SECTION 12: Ecological information

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

	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. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isopropyl alcohol)
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)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
Special provisions 640 (C)

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.

SECTION 14: Transport information

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]
TEKNOCOAT 1688-22	≥90	3

Labelling :

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not 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

Executive Order No. 1795/2015

SECTION 15: Regulatory information

Ingredient name	Annex I Section A	Annex I Section B
Propan-2-ol	Listed	-

MAL-code : 3-1

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: 3-1

Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc, for pre- and post-treatments 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 half mask and eye protection must be worn.

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

- Air-supplied full mask and arm protectors 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.

- Air-supplied full mask must be worn.

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

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

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

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

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

*See Regulations.

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.

SECTION 15: Regulatory information

List of undesirable substances : Not listed

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : Ethyl acetate RG 84
n-Butyl acetate RG 84
Naphtha (petroleum), hydrotreated light RG 84
Ethanol RG 84
Propan-2-ol 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 : 3

Technical instruction on air quality control : TA-Luft Number 5.2.5: 72.5%

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
Naphtha (petroleum), hydrotreated light ethanol	Listed Listed	Listed -	- Fertility 1A	- Development 1A	- 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 (SRVFS 2005:10) : 1

Switzerland

VOC content : VOC (w/w): 72.4%

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

SECTION 15: Regulatory information

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. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method 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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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]

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 12/03/2024

Date of previous issue : No previous validation

Version : 1

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All variants

Notice to reader

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

