

# SAFETY DATA SHEET



VARIVA SOLVA 8775-00 WIPE - All variants

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

### 1.1 Product identifier

**Product name** : VARIVA SOLVA 8775-00 WIPE - All variants

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

**Product use** : Paint.

### 1.3 Details of the supplier of the safety data sheet

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

**e-mail address of person responsible for this SDS** : 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

Acute Tox. 4, H332

Eye Dam. 1, H318

STOT SE 3, H335

STOT SE 3, H336

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

**Ingredients of unknown toxicity** : 7 percent of the mixture consists of component(s) of unknown acute oral toxicity  
7 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
7 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 7% of components with unknown hazards to the aquatic environment

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.  
H318 - Causes serious eye damage.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

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**Label No** : 51835

## SECTION 2: Hazards identification

### Precautionary statements

<b>Prevention</b>	: P280 - Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>Response</b>	: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Storage</b>	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Contains: 4-hydroxy-4-methylpentan-2-one; 2-butoxyethyl acetate; ethyl (S)-2-hydroxypropionate and 1-Methoxy 2-propanol
<b>Supplemental label elements</b>	:
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: 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
4-hydroxy-4-methylpentan-2-one	EC: 204-626-7 CAS: 123-42-2	≥10 - ≤25	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≥10 - ≤25	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
ethyl (S)-2-hydroxypropionate	EC: 211-694-1 CAS: 687-47-8 Index: 607-129-00-7	≥10 - ≤25	Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3, H335	-	[1]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<10	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]

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## SECTION 3: Composition/information on ingredients

Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336  <b>See Section 16 for the full text of the H statements declared above.</b>	-	[1]
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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.
- 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

## SECTION 4: First aid measures

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
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, CO<sub>2</sub>, 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.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds

### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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).

### 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). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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

## SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Seveso Directive - Reporting thresholds

#### Danger criteria

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
4-hydroxy-4-methylpentan-2-one	<b>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</b> TWA: 50 ppm 8 hours. TWA: 240 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 133 mg/m <sup>3</sup> 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 270 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
1-Methoxy 2-propanol	<b>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</b> TWA: 50 ppm 8 hours. TWA: 187 mg/m <sup>3</sup> 8 hours. CEIL: 50 ppm CEIL: 187 mg/m <sup>3</sup>
2-Butoxyethanol	<b>Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
Propan-2-ol	<b>Regulation on Limit Values - MAC (Austria, 4/2021).</b> TWA: 200 ppm 8 hours. TWA: 500 mg/m <sup>3</sup> 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. PEAK: 2000 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
4-hydroxy-4-methylpentan-2-one	<b>Limit values (Belgium, 5/2021).</b> TWA: 50 ppm 8 hours. TWA: 241 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	<b>Limit values (Belgium, 5/2021). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 133 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 333 mg/m <sup>3</sup> 15 minutes.

## SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	<p><b>Limit values (Belgium, 5/2021). Absorbed through skin.</b>  TWA: 50 ppm 8 hours.  TWA: 184 mg/m<sup>3</sup> 8 hours.  STEL: 100 ppm 15 minutes.  STEL: 369 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>Limit values (Belgium, 5/2021). Absorbed through skin.</b>  TWA: 20 ppm 8 hours.  TWA: 98 mg/m<sup>3</sup> 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 246 mg/m<sup>3</sup> 15 minutes.</p>
Propan-2-ol	<p><b>Limit values (Belgium, 5/2021).</b>  TWA: 200 ppm 8 hours.  TWA: 500 mg/m<sup>3</sup> 8 hours.  STEL: 400 ppm 15 minutes.  STEL: 1000 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</b>  Limit value 8 hours: 133 mg/m<sup>3</sup> 8 hours.  Limit value 15 min: 333 mg/m<sup>3</sup> 15 minutes.  Limit value 8 hours: 20 ppm 8 hours.  Limit value 15 min: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</b>  Limit value 8 hours: 375 mg/m<sup>3</sup> 8 hours.  Limit value 15 min: 568 mg/m<sup>3</sup> 15 minutes.  Limit value 15 min: 150 ppm 15 minutes.  Limit value 8 hours: 100 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</b>  Limit value 8 hours: 98 mg/m<sup>3</sup> 8 hours.  Limit value 15 min: 246 mg/m<sup>3</sup> 15 minutes.  Limit value 15 min: 50 ppm 15 minutes.  Limit value 8 hours: 20 ppm 8 hours.</p>
Propan-2-ol	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</b>  Limit value 8 hours: 980 mg/m<sup>3</sup> 8 hours.  Limit value 15 min: 1225 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</b>  STELV: 362 mg/m<sup>3</sup> 15 minutes.  STELV: 75 ppm 15 minutes.  ELV: 241 mg/m<sup>3</sup> 8 hours.  ELV: 50 ppm 8 hours.</p>
2-butoxyethyl acetate	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.</b>  STELV: 333 mg/m<sup>3</sup> 15 minutes.  STELV: 50 ppm 15 minutes.  ELV: 133 mg/m<sup>3</sup> 8 hours.  ELV: 20 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</b>  STELV: 568 mg/m<sup>3</sup> 15 minutes.  STELV: 150 ppm 15 minutes.  ELV: 375 mg/m<sup>3</sup> 8 hours.  ELV: 100 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.</b>  STELV: 246 mg/m<sup>3</sup> 15 minutes.  STELV: 50 ppm 15 minutes.  ELV: 98 mg/m<sup>3</sup> 8 hours.  ELV: 20 ppm 8 hours.</p>

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Propan-2-ol	<b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</b> STELV: 1250 mg/m <sup>3</sup> 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m <sup>3</sup> 8 hours. ELV: 400 ppm 8 hours.
2-butoxyethyl acetate	<b>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.</b> STEL: 50 ppm 15 minutes. STEL: 333 mg/m <sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. TWA: 133 mg/m <sup>3</sup> 8 hours.
1-Methoxy 2-propanol	<b>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.</b> STEL: 150 ppm 15 minutes. STEL: 568 mg/m <sup>3</sup> 15 minutes. TWA: 100 ppm 8 hours. TWA: 375 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol	<b>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.</b> STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours.
4-hydroxy-4-methylpentan-2-one	<b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022).</b> TWA: 200 mg/m <sup>3</sup> 8 hours. TWA: 41.4 ppm 8 hours. STEL: 300 mg/m <sup>3</sup> 15 minutes. STEL: 62.1 ppm 15 minutes.
2-butoxyethyl acetate	<b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</b> TWA: 130 mg/m <sup>3</sup> 8 hours. TWA: 19.5 ppm 8 hours. STEL: 300 mg/m <sup>3</sup> 15 minutes. STEL: 45 ppm 15 minutes.
1-Methoxy 2-propanol	<b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</b> TWA: 270 mg/m <sup>3</sup> 8 hours. TWA: 72.09 ppm 8 hours. STEL: 550 mg/m <sup>3</sup> 15 minutes. STEL: 146.85 ppm 15 minutes.
2-Butoxyethanol	<b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</b> TWA: 100 mg/m <sup>3</sup> 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m <sup>3</sup> 15 minutes. STEL: 40.8 ppm 15 minutes.
Propan-2-ol	<b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</b> TWA: 500 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m <sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.
4-hydroxy-4-methylpentan-2-one	<b>Working Environment Authority (Denmark, 6/2022).</b> TWA: 50 ppm 8 hours. TWA: 240 mg/m <sup>3</sup> 8 hours. STEL: 480 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.
2-butoxyethyl acetate	<b>Working Environment Authority (Denmark, 6/2022). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 134 mg/m <sup>3</sup> 8 hours. STEL: 333 mg/m <sup>3</sup> 15 minutes.



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1-Methoxy 2-propanol	<p>STEL: 50 ppm 15 minutes.  <b>Working Environment Authority (Denmark, 6/2022). [1-methoxy-2-propanol] Absorbed through skin.</b>                      TWA: 50 ppm 8 hours.                      TWA: 185 mg/m<sup>3</sup> 8 hours.                      STEL: 568 mg/m<sup>3</sup> 15 minutes.                      STEL: 150 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Working Environment Authority (Denmark, 6/2022). Absorbed through skin.</b>                      TWA: 20 ppm 8 hours.                      TWA: 98 mg/m<sup>3</sup> 8 hours.                      STEL: 246 mg/m<sup>3</sup> 15 minutes.                      STEL: 50 ppm 15 minutes.</p>
Propan-2-ol	<p><b>Working Environment Authority (Denmark, 6/2022). Absorbed through skin.</b>                      TWA: 200 ppm 8 hours.                      TWA: 490 mg/m<sup>3</sup> 8 hours.                      STEL: 980 mg/m<sup>3</sup> 15 minutes.                      STEL: 400 ppm 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).</b>                      TWA: 120 mg/m<sup>3</sup> 8 hours.                      TWA: 25 ppm 8 hours.                      STEL: 240 mg/m<sup>3</sup> 15 minutes.                      STEL: 50 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser.</b>                      TWA: 133 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      STEL: 333 mg/m<sup>3</sup> 15 minutes.                      STEL: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser.</b>                      TWA: 375 mg/m<sup>3</sup> 8 hours.                      TWA: 100 ppm 8 hours.                      STEL: 568 mg/m<sup>3</sup> 15 minutes.                      STEL: 150 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser.</b>                      TWA: 98 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      STEL: 246 mg/m<sup>3</sup> 15 minutes.                      STEL: 50 ppm 15 minutes.</p>
Propan-2-ol	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).</b>                      TWA: 350 mg/m<sup>3</sup> 8 hours.                      TWA: 150 ppm 8 hours.                      STEL: 600 mg/m<sup>3</sup> 15 minutes.                      STEL: 250 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b>                      TWA: 20 ppm 8 hours.                      TWA: 133 mg/m<sup>3</sup> 8 hours.                      STEL: 50 ppm 15 minutes.                      STEL: 333 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b>                      TWA: 100 ppm 8 hours.                      TWA: 375 mg/m<sup>3</sup> 8 hours.                      STEL: 150 ppm 15 minutes.                      STEL: 568 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b>                      TWA: 20 ppm 8 hours.</p>

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4-hydroxy-4-methylpentan-2-one	<p>TWA: 98 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 246 mg/m<sup>3</sup> 15 minutes.</p> <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).</b></p> <p>TWA: 50 ppm 8 hours.          TWA: 240 mg/m<sup>3</sup> 8 hours.          STEL: 75 ppm 15 minutes.          STEL: 360 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.</b></p> <p>TWA: 20 ppm 8 hours.          TWA: 130 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 330 mg/m<sup>3</sup> 15 minutes.</p>
ethyl (S)-2-hydroxypropionate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Ethyl lactate]</b></p> <p>TWA: 5 ppm 8 hours.          TWA: 25 mg/m<sup>3</sup> 8 hours.          STEL: 10 ppm 15 minutes.          STEL: 49 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.</b></p> <p>TWA: 100 ppm 8 hours.          TWA: 370 mg/m<sup>3</sup> 8 hours.          STEL: 150 ppm 15 minutes.          STEL: 560 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin.</b></p> <p>TWA: 20 ppm 8 hours.          TWA: 98 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 250 mg/m<sup>3</sup> 15 minutes.</p>
Propan-2-ol	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).</b></p> <p>TWA: 200 ppm 8 hours.          TWA: 500 mg/m<sup>3</sup> 8 hours.          STEL: 250 ppm 15 minutes.          STEL: 620 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars)</b></p> <p>TWA: 50 ppm 8 hours.          TWA: 240 mg/m<sup>3</sup> 8 hours.</p>
2-butoxyethyl acetate	<p><b>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b></p> <p>STEL: 333 mg/m<sup>3</sup> 15 minutes.          STEL: 50 ppm 15 minutes.          TWA: 66.5 mg/m<sup>3</sup> 8 hours.          TWA: 10 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p><b>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b></p> <p>TWA: 50 ppm 8 hours.          TWA: 188 mg/m<sup>3</sup> 8 hours.          STEL: 375 mg/m<sup>3</sup> 15 minutes.          STEL: 100 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b></p> <p>TWA: 10 ppm 8 hours.          TWA: 49 mg/m<sup>3</sup> 8 hours.          STEL: 246 mg/m<sup>3</sup> 15 minutes.          STEL: 50 ppm 15 minutes.</p>

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Propan-2-ol	<p><b>Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars)</b>          STEL: 400 ppm 15 minutes.          STEL: 980 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.</b>          TWA: 96 mg/m<sup>3</sup> 8 hours.          PEAK: 192 mg/m<sup>3</sup> 15 minutes.          TWA: 20 ppm 8 hours.          PEAK: 40 ppm 15 minutes.</p> <p><b>DFG MAC-values list (Germany, 7/2022). Absorbed through skin.</b>          TWA: 20 ppm 8 hours.          PEAK: 40 ppm, 4 times per shift, 15 minutes.          TWA: 96 mg/m<sup>3</sup> 8 hours.          PEAK: 192 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
2-butoxyethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.</b>          TWA: 65 mg/m<sup>3</sup> 8 hours.          PEAK: 130 mg/m<sup>3</sup> 15 minutes.          TWA: 10 ppm 8 hours.          PEAK: 20 ppm 15 minutes.</p> <p><b>DFG MAC-values list (Germany, 7/2022). Absorbed through skin.</b>          TWA: 10 ppm 8 hours.          PEAK: 20 ppm, 4 times per shift, 15 minutes.          TWA: 66 mg/m<sup>3</sup> 8 hours.          PEAK: 132 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>TRGS 900 OEL (Germany, 6/2022).</b>          TWA: 370 mg/m<sup>3</sup> 8 hours.          PEAK: 740 mg/m<sup>3</sup> 15 minutes.          TWA: 100 ppm 8 hours.          PEAK: 200 ppm 15 minutes.</p> <p><b>DFG MAC-values list (Germany, 7/2022).</b>          TWA: 100 ppm 8 hours.          PEAK: 200 ppm, 4 times per shift, 15 minutes.          TWA: 370 mg/m<sup>3</sup> 8 hours.          PEAK: 740 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
2-Butoxyethanol	<p><b>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.</b>          TWA: 49 mg/m<sup>3</sup> 8 hours.          PEAK: 98 mg/m<sup>3</sup> 15 minutes.          TWA: 10 ppm 8 hours.          PEAK: 20 ppm 15 minutes.</p> <p><b>DFG MAC-values list (Germany, 7/2022). Absorbed through skin.</b>          TWA: 10 ppm 8 hours.          PEAK: 20 ppm, 4 times per shift, 15 minutes.          TWA: 49 mg/m<sup>3</sup> 8 hours.          PEAK: 98 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
Propan-2-ol	<p><b>TRGS 900 OEL (Germany, 6/2022).</b>          TWA: 500 mg/m<sup>3</sup> 8 hours.          PEAK: 1000 mg/m<sup>3</sup> 15 minutes.          TWA: 200 ppm 8 hours.          PEAK: 400 ppm 15 minutes.</p> <p><b>DFG MAC-values list (Germany, 7/2022).</b>          TWA: 200 ppm 8 hours.          PEAK: 400 ppm, 4 times per shift, 15 minutes.          TWA: 500 mg/m<sup>3</sup> 8 hours.          PEAK: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021).</b>          TWA: 50 ppm 8 hours.          TWA: 240 mg/m<sup>3</sup> 8 hours.          STEL: 75 ppm 15 minutes.          STEL: 360 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit</b></p>

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1-Methoxy 2-propanol	<p>values (Greece, 9/2021).  TWA: 20 ppm 8 hours.  TWA: 135 mg/m<sup>3</sup> 8 hours.  STEL: 40 ppm 15 minutes.  STEL: 270 mg/m<sup>3</sup> 15 minutes.</p> <p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.</b>  TWA: 100 ppm 8 hours.  TWA: 360 mg/m<sup>3</sup> 8 hours.  STEL: 300 ppm 15 minutes.  STEL: 1080 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.</b>  TWA: 25 ppm 8 hours.  TWA: 120 mg/m<sup>3</sup> 8 hours.</p>
Propan-2-ol	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021).</b>  TWA: 400 ppm 8 hours.  TWA: 980 mg/m<sup>3</sup> 8 hours.  STEL: 500 ppm 15 minutes.  STEL: 1225 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin.</b>  TWA: 133 mg/m<sup>3</sup> 8 hours.  PEAK: 333 mg/m<sup>3</sup> 15 minutes.  PEAK: 50 ppm 15 minutes.  TWA: 20 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin.</b>  TWA: 375 mg/m<sup>3</sup> 8 hours.  PEAK: 568 mg/m<sup>3</sup> 15 minutes.  PEAK: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser.</b>  TWA: 98 mg/m<sup>3</sup> 8 hours.  PEAK: 246 mg/m<sup>3</sup> 15 minutes.  PEAK: 50 ppm 15 minutes.  TWA: 20 ppm 8 hours.</p>
Propan-2-ol	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser.</b>  TWA: 500 mg/m<sup>3</sup> 8 hours.  PEAK: 1000 mg/m<sup>3</sup> 15 minutes.  PEAK: 400 ppm 15 minutes.  TWA: 200 ppm 8 hours.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).</b>  TWA: 240 mg/m<sup>3</sup> 8 hours.  TWA: 50 ppm 8 hours.</p>
2-butoxyethyl acetate	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</b>  STEL: 333 mg/m<sup>3</sup> 15 minutes.  STEL: 50 ppm 15 minutes.  TWA: 133 mg/m<sup>3</sup> 8 hours.  TWA: 20 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</b>  STEL: 568 mg/m<sup>3</sup> 15 minutes.  STEL: 150 ppm 15 minutes.  TWA: 185 mg/m<sup>3</sup> 8 hours.  TWA: 50 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</b>  STEL: 246 mg/m<sup>3</sup> 15 minutes.  STEL: 50 ppm 15 minutes.</p>

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4-hydroxy-4-methylpentan-2-one	TWA: 100 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. <b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 50 ppm 8 hours. OELV-8hr: 240 mg/m <sup>3</sup> 8 hours.
2-butoxyethyl acetate	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 20 ppm 8 hours. OELV-8hr: 133 mg/m <sup>3</sup> 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 333 mg/m <sup>3</sup> 15 minutes.
1-Methoxy 2-propanol	<b>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 100 ppm 8 hours. OELV-8hr: 375 mg/m <sup>3</sup> 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 568 mg/m <sup>3</sup> 15 minutes.
2-Butoxyethanol	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m <sup>3</sup> 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m <sup>3</sup> 15 minutes.
Propan-2-ol	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes.
2-butoxyethyl acetate	<b>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin.</b> 8 hours: 20 ppm 8 hours. 8 hours: 133 mg/m <sup>3</sup> 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 333 mg/m <sup>3</sup> 15 minutes.
1-Methoxy 2-propanol	<b>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin.</b> 8 hours: 100 ppm 8 hours. 8 hours: 375 mg/m <sup>3</sup> 8 hours. Short Term: 150 ppm 15 minutes. Short Term: 568 mg/m <sup>3</sup> 15 minutes.
2-Butoxyethanol	<b>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin.</b> 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m <sup>3</sup> 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m <sup>3</sup> 15 minutes.
2-butoxyethyl acetate	<b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.</b> STEL: 50 ppm 15 minutes. TWA: 133 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 333 mg/m <sup>3</sup> 15 minutes.
1-Methoxy 2-propanol	<b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.</b> TWA: 100 ppm 8 hours. STEL: 568 mg/m <sup>3</sup> 15 minutes. TWA: 375 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes.
2-Butoxyethanol	<b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.</b> TWA: 98 mg/m <sup>3</sup> 8 hours.

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Propan-2-ol	<p>TWA: 20 ppm 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 246 mg/m<sup>3</sup> 15 minutes.</p> <p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).</b>          TWA: 350 mg/m<sup>3</sup> 8 hours.          STEL: 600 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>          TWA: 120 mg/m<sup>3</sup> 8 hours.          TWA: 25 ppm 8 hours.          STEL: 240 mg/m<sup>3</sup> 15 minutes.          STEL: 50 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>  <b>Absorbed through skin.</b>          TWA: 70 mg/m<sup>3</sup> 8 hours.          TWA: 10 ppm 8 hours.          STEL: 140 mg/m<sup>3</sup> 15 minutes.          STEL: 20 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>  <b>Absorbed through skin.</b>          TWA: 190 mg/m<sup>3</sup> 8 hours.          TWA: 50 ppm 8 hours.          STEL: 300 mg/m<sup>3</sup> 15 minutes.          STEL: 75 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>  <b>Absorbed through skin.</b>          TWA: 50 mg/m<sup>3</sup> 8 hours.          TWA: 10 ppm 8 hours.          STEL: 100 mg/m<sup>3</sup> 15 minutes.          STEL: 20 ppm 15 minutes.</p>
Propan-2-ol	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>          TWA: 350 mg/m<sup>3</sup> 8 hours.          TWA: 150 ppm 8 hours.          STEL: 600 mg/m<sup>3</sup> 15 minutes.          STEL: 250 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin.</b>          TWA: 20 ppm 8 hours.          TWA: 133 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 333 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin.</b>          TWA: 100 ppm 8 hours.          TWA: 375 mg/m<sup>3</sup> 8 hours.          STEL: 150 ppm 15 minutes.          STEL: 568 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin.</b>          TWA: 20 ppm 8 hours.          TWA: 98 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 246 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b>          TWA: 20 ppm 8 hours.          TWA: 133 mg/m<sup>3</sup> 8 hours.          STEL: 50 ppm 15 minutes.          STEL: 333 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b>          TWA: 100 ppm 8 hours.          TWA: 375 mg/m<sup>3</sup> 8 hours.          STEL: 150 ppm 15 minutes.          STEL: 568 mg/m<sup>3</sup> 15 minutes.</p>

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2-Butoxyethanol	<p><b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b></p> <p>TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.</b></p> <p>OEL, 8-h TWA: 135 mg/m<sup>3</sup> 8 hours. STEL, 15-min: 333 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 20.3 ppm 8 hours. STEL, 15-min: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.</b></p> <p>OEL, 8-h TWA: 375 mg/m<sup>3</sup> 8 hours. STEL, 15-min: 563 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 100 ppm 8 hours. STEL, 15-min: 150 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.</b></p> <p>OEL, 8-h TWA: 100 mg/m<sup>3</sup> 8 hours. STEL, 15-min: 246 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL, 15-min: 50 ppm 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>FOR-2011-12-06-1358 (Norway, 12/2022).</b></p> <p>TWA: 25 ppm 8 hours. TWA: 120 mg/m<sup>3</sup> 8 hours.</p>
2-butoxyethyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</b></p> <p>TWA: 10 ppm 8 hours. TWA: 65 mg/m<sup>3</sup> 8 hours.</p>
1-Methoxy 2-propanol	<p><b>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</b></p> <p>TWA: 50 ppm 8 hours. TWA: 180 mg/m<sup>3</sup> 8 hours.</p>
2-Butoxyethanol	<p><b>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</b></p> <p>TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours.</p>
Propan-2-ol	<p><b>FOR-2011-12-06-1358 (Norway, 12/2022).</b></p> <p>TWA: 100 ppm 8 hours. TWA: 245 mg/m<sup>3</sup> 8 hours.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>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).</b></p> <p>TWA: 240 mg/m<sup>3</sup> 8 hours.</p>
2-butoxyethyl acetate	<p><b>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.</b></p> <p>TWA: 100 mg/m<sup>3</sup> 8 hours. STEL: 300 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>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.</b></p> <p>TWA: 180 mg/m<sup>3</sup> 8 hours. STEL: 360 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible</b></p>

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Propan-2-ol	<p>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: 98 mg/m<sup>3</sup> 8 hours. STEL: 200 mg/m<sup>3</sup> 15 minutes.</p> <p><b>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.</b> TWA: 900 mg/m<sup>3</sup> 8 hours. STEL: 1200 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 50 ppm 8 hours.</p>
2-butoxyethyl acetate	<p><b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 20 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p><b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 20 ppm 8 hours.</p>
Propan-2-ol	<p><b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</b> VLA: 150 mg/m<sup>3</sup> 8 hours. VLA: 32 ppm 8 hours. Short term: 250 mg/m<sup>3</sup> 15 minutes. Short term: 53 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.</b> VLA: 133 mg/m<sup>3</sup> 8 hours. VLA: 20 ppm 8 hours. Short term: 333 mg/m<sup>3</sup> 15 minutes. Short term: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.</b> VLA: 375 mg/m<sup>3</sup> 8 hours. VLA: 100 ppm 8 hours. Short term: 568 mg/m<sup>3</sup> 15 minutes. Short term: 150 ppm 15 minutes.</p>
2-Butoxyethanol	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.</b> VLA: 98 mg/m<sup>3</sup> 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m<sup>3</sup> 15 minutes. Short term: 50 ppm 15 minutes.</p>
Propan-2-ol	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).</b> VLA: 200 mg/m<sup>3</sup> 8 hours. VLA: 81 ppm 8 hours. Short term: 500 mg/m<sup>3</sup> 15 minutes. Short term: 203 ppm 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.</b> TWA: 133 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 333 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.</b> TWA: 375 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.</p>



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2-Butoxyethanol	<p>STEL: 568 mg/m<sup>3</sup> 15 minutes.                      STEL: 150 ppm 15 minutes.  <b>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</b>  <b>Absorbed through skin.</b>                      TWA: 98 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      STEL: 246 mg/m<sup>3</sup> 15 minutes.                      STEL: 50 ppm 15 minutes.</p>
Propan-2-ol	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</b>                      TWA: 500 mg/m<sup>3</sup> 8 hours.                      TWA: 200 ppm 8 hours.                      STEL: 1000 mg/m<sup>3</sup> 15 minutes.                      STEL: 400 ppm 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b>  <b>Absorbed through skin.</b>                      TWA: 96 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      KTV: 40 ppm, 4 times per shift, 15 minutes.                      KTV: 192 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b>  <b>Absorbed through skin.</b>                      TWA: 133 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      KTV: 333 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.                      KTV: 50 ppm, 4 times per shift, 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b>  <b>Absorbed through skin.</b>                      TWA: 375 mg/m<sup>3</sup> 8 hours.                      TWA: 100 ppm 8 hours.                      KTV: 568 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.                      KTV: 150 ppm, 4 times per shift, 15 minutes.</p>
2-Butoxyethanol	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b>  <b>Absorbed through skin.</b>                      TWA: 98 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.                      KTV: 246 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.                      KTV: 50 ppm, 4 times per shift, 15 minutes.</p>
Propan-2-ol	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</b>                      TWA: 500 mg/m<sup>3</sup> 8 hours.                      TWA: 200 ppm 8 hours.                      KTV: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.                      KTV: 400 ppm, 4 times per shift, 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>National institute of occupational safety and health (Spain, 4/2022).</b>                      TWA: 50 ppm 8 hours.                      TWA: 241 mg/m<sup>3</sup> 8 hours.</p>
2-butoxyethyl acetate	<p><b>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</b>                      TWA: 20 ppm 8 hours.                      TWA: 133 mg/m<sup>3</sup> 8 hours.                      STEL: 50 ppm 15 minutes.                      STEL: 333 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</b>                      TWA: 100 ppm 8 hours.                      TWA: 375 mg/m<sup>3</sup> 8 hours.                      STEL: 150 ppm 15 minutes.                      STEL: 568 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>National institute of occupational safety and health (Spain,</b></p>

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Propan-2-ol	<p><b>4/2022). Absorbed through skin.</b>  TWA: 20 ppm 8 hours.  TWA: 98 mg/m<sup>3</sup> 8 hours.  STEL: 245 mg/m<sup>3</sup> 15 minutes.  STEL: 50 ppm 15 minutes.</p> <p><b>National institute of occupational safety and health (Spain, 4/2022).</b>  TWA: 200 ppm 8 hours.  TWA: 500 mg/m<sup>3</sup> 8 hours.  STEL: 400 ppm 15 minutes.  STEL: 1000 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</b>  TWA: 25 ppm 8 hours.  TWA: 120 mg/m<sup>3</sup> 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 240 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</b>  TWA: 10 ppm 8 hours.  TWA: 70 mg/m<sup>3</sup> 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 333 mg/m<sup>3</sup> 15 minutes.</p>
1-Methoxy 2-propanol	<p><b>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</b>  STEL: 150 ppm 15 minutes.  STEL: 568 mg/m<sup>3</sup> 15 minutes.  TWA: 190 mg/m<sup>3</sup> 8 hours.  TWA: 50 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</b>  TWA: 10 ppm 8 hours.  TWA: 50 mg/m<sup>3</sup> 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 246 mg/m<sup>3</sup> 15 minutes.</p>
Propan-2-ol	<p><b>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</b>  TWA: 150 ppm 8 hours.  TWA: 350 mg/m<sup>3</sup> 8 hours.  STEL: 250 ppm 15 minutes.  STEL: 600 mg/m<sup>3</sup> 15 minutes.</p>
4-hydroxy-4-methylpentan-2-one	<p><b>SUVA (Switzerland, 1/2023). Absorbed through skin.</b>  TWA: 20 ppm 8 hours.  TWA: 96 mg/m<sup>3</sup> 8 hours.  STEL: 40 ppm 15 minutes.  STEL: 192 mg/m<sup>3</sup> 15 minutes.</p>
2-butoxyethyl acetate	<p><b>SUVA (Switzerland, 1/2023). Absorbed through skin.</b>  TWA: 10 ppm 8 hours. Form: vapour and aerosols  TWA: 66 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols  STEL: 20 ppm 15 minutes. Form: vapour and aerosols  STEL: 132 mg/m<sup>3</sup> 15 minutes. Form: vapour and aerosols</p>
1-Methoxy 2-propanol	<p><b>SUVA (Switzerland, 1/2023).</b>  TWA: 100 ppm 8 hours.  TWA: 360 mg/m<sup>3</sup> 8 hours.  STEL: 200 ppm 15 minutes.  STEL: 720 mg/m<sup>3</sup> 15 minutes.</p>
2-Butoxyethanol	<p><b>SUVA (Switzerland, 1/2023). Absorbed through skin.</b>  TWA: 10 ppm 8 hours.  TWA: 49 mg/m<sup>3</sup> 8 hours.  STEL: 20 ppm 15 minutes.  STEL: 98 mg/m<sup>3</sup> 15 minutes.</p>
Propan-2-ol	<p><b>SUVA (Switzerland, 1/2023).</b>  TWA: 200 ppm 8 hours.  TWA: 500 mg/m<sup>3</sup> 8 hours.  STEL: 400 ppm 15 minutes.</p>

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4-hydroxy-4-methylpentan-2-one	<p>STEL: 1000 mg/m<sup>3</sup> 15 minutes.</p> <p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b></p> <p>STEL: 362 mg/m<sup>3</sup> 15 minutes.</p> <p>STEL: 75 ppm 15 minutes.</p> <p>TWA: 241 mg/m<sup>3</sup> 8 hours.</p> <p>TWA: 50 ppm 8 hours.</p>
2-butoxyethyl acetate	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b></p> <p>TWA: 20 ppm 8 hours.</p> <p>STEL: 50 ppm 15 minutes.</p> <p>STEL: 332 mg/m<sup>3</sup> 15 minutes.</p> <p>TWA: 133 mg/m<sup>3</sup> 8 hours.</p>
1-Methoxy 2-propanol	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b></p> <p>STEL: 560 mg/m<sup>3</sup> 15 minutes.</p> <p>STEL: 150 ppm 15 minutes.</p> <p>TWA: 375 mg/m<sup>3</sup> 8 hours.</p> <p>TWA: 100 ppm 8 hours.</p>
2-Butoxyethanol	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b></p> <p>STEL: 50 ppm 15 minutes.</p> <p>TWA: 25 ppm 8 hours.</p> <p>STEL: 246 mg/m<sup>3</sup> 15 minutes.</p> <p>TWA: 123 mg/m<sup>3</sup> 8 hours.</p>
Propan-2-ol	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b></p> <p>STEL: 1250 mg/m<sup>3</sup> 15 minutes.</p> <p>STEL: 500 ppm 15 minutes.</p> <p>TWA: 999 mg/m<sup>3</sup> 8 hours.</p> <p>TWA: 400 ppm 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><b>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)</b></p> <p>BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.</p> <p>BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.</p> <p>BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift.</p> <p>BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.</p>
<p>No exposure indices known.</p> <p>2-butoxyethyl acetate</p>	<p><b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)</b></p> <p>Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.</p> <p>Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.</p>
2-Butoxyethanol	<p><b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)</b></p> <p>Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.</p> <p>Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.</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.

2-butoxyethyl acetate

the end of the week.

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

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

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

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

1-Methoxy 2-propanol

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

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

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

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.

2-Butoxyethanol

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

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

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

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

Propan-2-ol

**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.

2-Butoxyethanol

**NAOSH (Ireland, 1/2011)**

BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

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.

## SECTION 8: Exposure controls/personal protection

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.	
2-Butoxyethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
Propan-2-ol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the end of the workweek.
Propan-2-ol	<b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)</b> OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-butoxyethyl acetate	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</b> BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
1-Methoxy 2-propanol	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</b> BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.
2-Butoxyethanol	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</b> BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
Propan-2-ol	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</b> 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.
2-Butoxyethanol	<b>National institute of occupational safety and health (Spain, 4/2022)</b> VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
Propan-2-ol	<b>National institute of occupational safety and health (Spain, 4/2022)</b> VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.
No exposure indices known.	
2-butoxyethyl acetate	<b>SUVA (Switzerland, 1/2023)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
1-Methoxy 2-propanol	<b>SUVA (Switzerland, 1/2023)</b> BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time:

## SECTION 8: Exposure controls/personal protection

2-Butoxyethanol	<p>immediately after exposure or after working hours. BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.</p> <p><b>SUVA (Switzerland, 1/2023)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</p>
Propan-2-ol	<p><b>SUVA (Switzerland, 1/2023)</b> 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.</p>
2-Butoxyethanol	<p><b>EH40/2005 BMGVs (United Kingdom (UK), 8/2018)</b> BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.</p>

**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
2-butoxyethyl acetate	DNEL	Long term Oral	1.67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	32.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	33 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	240 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	467 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	8.6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	72 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	80 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	120 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	133 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	169 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	200 mg/m <sup>3</sup>	General population	Local

## SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	DNEL	Short term Inhalation	333 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Local
2-Butoxyethanol	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	246 mg/m <sup>3</sup>	Workers	Local
Propan-2-ol	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic

### PNECs

No PNECs available

### 8.2 Exposure controls

#### **Appropriate engineering controls**

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

#### **Individual protection measures**

##### **Hygiene measures**

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

##### **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.

## SECTION 8: Exposure controls/personal protection

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

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
Propan-2-ol	83	181.4	
1-Methoxy 2-propanol	120.17	248.3	OECD 103

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: 2%  
Upper: 12%
- Flash point** : Closed cup: 13°C (55.4°F)
- Auto-ignition temperature** :

Ingredient name	°C	°F	Method
2-Butoxyethanol	230	446	DIN 51794
1-Methoxy 2-propanol	270	518	

- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Not available.
- Solubility(ies)** :



## SECTION 9: Physical and chemical properties

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
Propan-2-ol	33.00268	4.4				
1-Methoxy 2-propanol	8.5	1.1				

**Relative density** : Not available.

**Density** : 1 g/cm<sup>3</sup>

**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

**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
4-hydroxy-4-methylpentan-2-one	LD50 Dermal	Rabbit	13500 mg/kg	-
	LD50 Oral	Rat	2520 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

**Conclusion/Summary** : Harmful if inhaled.

#### Acute toxicity estimates

## SECTION 11: Toxicological information

Route	ATE value
Oral	12121.21 mg/kg
Dermal	8012.82 mg/kg
Inhalation (vapours)	19.99 mg/l

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4-hydroxy-4-methylpentan-2-one	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-butoxyethyl acetate	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
1-Methoxy 2-propanol	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
2-Butoxyethanol	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
Propan-2-ol	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	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)

Product/ingredient name	Category	Route of exposure	Target organs
4-hydroxy-4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
ethyl (S)-2-hydroxypropionate	Category 3	-	Respiratory tract irritation
1-Methoxy 2-propanol	Category 3	-	Narcotic effects
Propan-2-ol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

## SECTION 11: Toxicological information

- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- 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  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
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 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

### 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
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - <i>Menidia beryllina</i>	96 hours
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - <i>Rasbora heteromorpha</i>	96 hours

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

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
4-hydroxy-4-methylpentan-2-one	-0.14 to 1.03	-	Low
2-butoxyethyl acetate ethyl (S)	1.51	-	Low
	0.31	-	Low
-2-hydroxypropionate			
1-Methoxy 2-propanol	<1	-	Low
2-Butoxyethanol	0.81	-	Low
Propan-2-ol	0.05	-	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

## 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.

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**Label No** : 51835

## SECTION 13: Disposal considerations

**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. (4-hydroxy-4-methylpentan-2-one, ethyl (S) -2-hydroxypropionate)	FLAMMABLE LIQUID, N.O.S. (4-hydroxy-4-methylpentan-2-one, ethyl (S) -2-hydroxypropionate)	FLAMMABLE LIQUID, N.O.S. (4-hydroxy-4-methylpentan-2-one, ethyl (S) -2-hydroxypropionate)	FLAMMABLE LIQUID, N.O.S. (4-hydroxy-4-methylpentan-2-one, ethyl (S) -2-hydroxypropionate)
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.

### Additional information

**ADR/RID** : **Special provisions** 640 (C)  
**Tunnel code** (D/E)

**ADN** : **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.

**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]
VARIVA SOLVA 8775-00 WIPE	≥90	3

**Labelling** :

## SECTION 15: Regulatory information

### 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

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

**MAL-code** : 5-3

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

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

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

## SECTION 15: Regulatory information

MAL-code: 5-3

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

- Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

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

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

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

During 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.
- List of undesirable substances** : Not listed

### Finland

### France

- Social Security Code, Articles L 461-1 to L 461-7** :
- |                                |       |
|--------------------------------|-------|
| 4-hydroxy-4-methylpentan-2-one | RG 84 |
| 2-butoxyethyl acetate          | RG 84 |
| 1-Methoxy 2-propanol           | RG 84 |
| 2-Butoxyethanol                | 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

## SECTION 15: Regulatory information

Category	Reference number
P5c	1.2.5.3

**Hazard class for water** : 1  
**Technical instruction on air quality control** : TA-Luft Number 5.2.5: 90.6%  
**AOX** : The product contains organically bound halogens and can contribute to the AOX value in waste water.

### Italy

**D.Lgs. 152/06** : Not determined.

### Netherlands

**Water Discharge Policy (ABM)** : B(4) Low hazard for aquatic organisms. Decontamination effort: B

### Norway

### Sweden

**Flammable liquid class (SRVFS 2005:10)** : 1

### Switzerland

**VOC content** : VOC (w/w): 72.6%

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

📌 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
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]**



## SECTION 16: Other information

Classification	Justification
Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	On basis of test data Calculation method Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.

### Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Version** : 1

VARIVA SOLVA 8775-00 WIPE

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.

