## SAFETY DATA SHEET



VARIVA SOLVA 8776-00 SPRAY - All variants

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

#### 1.1 Product identifier

**Product name** : VARIVA SOLVA 8776-00 SPRAY - All variants

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

**Product use** : Paint.

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

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

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

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

#### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

: In an emergency, call 112 Telephone number

### **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 Dam. 1, H318 **STOT SE 3, H336** 

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.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

**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.

: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several Response

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

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

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### **SECTION 2: Hazards identification**

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** 

Supplemental label elements

: Contains: Propan-2-ol; acetone and ethyl (S)-2-hydroxypropionate

: Repeated exposure may cause skin dryness or cracking.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

vPvB.

Other hazards which do not result in classification : None known.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
4-hydroxy-4-methylpentan- 2-one	EC: 204-626-7 CAS: 123-42-2	≤10	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	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
ethyl (S) -2-hydroxypropionate	EC: 211-694-1 CAS: 687-47-8 Index: 607-129-00-7	≤9.5	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	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	≤5	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				
	See Section 16 for the full text of the H statements declared above.			

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

- [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

#### **Eve 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. Wash skin thoroughly with soap and water or use recognised skin cleanser. 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

**Eye contact** 

: Adverse symptoms may include the following:

pain watering redness

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

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

pain or irritation

redness dryness cracking

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

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: 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.

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For emergency responders: If specialised clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

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### **SECTION 6: Accidental release measures**

# **6.2 Environmental precautions**

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

### 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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

# 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

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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

#### **Seveso Directive - Reporting thresholds**

### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
<b>₱</b> 5c	5000 tonnes	50000 tonnes

#### 7.3 Specific end use(s)

**Recommendations**: Not available.

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### **SECTION 7: Handling and storage**

Industrial sector specific : Not available. solutions

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 800 ppm 4 times per shift. PEAK 15 minutes: 2000 mg/m³ 4 times per shift.
acetone	Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m³. PEAK 15 minutes: 2000 ppm 4 times per shift. PEAK 15 minutes: 4800 mg/m³ 4 times per shift.
4-hydroxy-4-methylpentan-2-one	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 240 mg/m³.
2-butoxyethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 133 mg/m³.  PEAK 30 minutes: 40 ppm 4 times per shift.  PEAK 30 minutes: 270 mg/m³ 4 times per shift.
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 187 mg/m³.  CEIL: 50 ppm.  CEIL: 187 mg/m³.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 98 mg/m³.  PEAK 30 minutes: 40 ppm 4 times per shift.  PEAK 30 minutes: 200 mg/m³ 4 times per shift.
Propan-2-ol	Limit values (Belgium, 12/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m³.
acetone	Limit values (Belgium, 12/2023)  TWA 8 hours: 246 ppm.  TWA 8 hours: 594 mg/m³.  STEL 15 minutes: 492 ppm.  STEL 15 minutes: 1187 mg/m³.
4-hydroxy-4-methylpentan-2-one	Limit values (Belgium, 12/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³.
2-butoxyethyl acetate	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m³.
1-Methoxy 2-propanol	Limit values (Belgium, 12/2023) Absorbed through skin.

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TWA 8 hours: 50 ppm.
TWA 8 hours: 184 mg/m³.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 369 mg/m³.

2-Butoxyethanol Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

Fropan-2-ol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 980 mg/m³. Limit value 15 minutes: 1225 mg/m³.

acetone Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 600 mg/m³. Limit value 15 minutes: 1400 mg/m³.

2-butoxyethyl acetate

Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 133 mg/m³. Limit value 15 minutes: 333 mg/m³. Limit value 8 hours: 20 ppm. Limit value 15 minutes: 50 ppm.

1-Methoxy 2-propanol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 375 mg/m³. Limit value 15 minutes: 568 mg/m³. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 100 ppm.

2-Butoxyethanol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 98 mg/m³. Limit value 15 minutes: 246 mg/m³. Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.

Propan-2-ol Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

STELV 15 minutes: 1250 mg/m³. STELV 15 minutes: 500 ppm. ELV 8 hours: 999 mg/m³. ELV 8 hours: 400 ppm.

acetone Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

ELV 8 hours: 1210 mg/m<sup>3</sup>. ELV 8 hours: 500 ppm.

4-hydroxy-4-methylpentan-2-one Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

STELV 15 minutes: 362 mg/m³. STELV 15 minutes: 75 ppm. ELV 8 hours: 241 mg/m³. ELV 8 hours: 50 ppm.

2-butoxyethyl acetate

Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

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(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 333 mg/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 133 mg/m³.

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ELV 8 hours: 20 ppm.

1-Methoxy 2-propanol

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) STELV 15 minutes: 568 mg/m<sup>3</sup>.

STELV 15 minutes: 150 ppm. ELV 8 hours: 375 mg/m³. ELV 8 hours: 100 ppm.

2-Butoxyethanol

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 246 mg/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m³. ELV 8 hours: 20 ppm.

Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.

2-butoxyethyl acetate Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

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

1-Methoxy 2-propanol Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³.

2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³.

Fropan-2-ol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

TWA 8 hours: 500 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1000 mg/m³. STEL 15 minutes: 400 ppm.

acetone Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

TWA 8 hours: 800 mg/m³. STEL 15 minutes: 1500 mg/m³. STEL 15 minutes: 621.4 ppm. TWA 8 hours: 331.4 ppm.

4-hydroxy-4-methylpentan-2-one Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

TWA 8 hours: 200 mg/m³. TWA 8 hours: 41.4 ppm. STEL 15 minutes: 300 mg/m³. STEL 15 minutes: 62.1 ppm.

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

Republic, 12/2023) Absorbed through skin.

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

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Government regulation of Czech Republic PEL/NPK-P (Czech 1-Methoxy 2-propanol Republic, 12/2023) Absorbed through skin. TWA 8 hours: 270 mg/m<sup>3</sup>. TWA 8 hours: 72.09 ppm. STEL 15 minutes: 550 mg/m<sup>3</sup>. STEL 15 minutes: 146.84 ppm. 2-Butoxyethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m<sup>3</sup>. STEL 15 minutes: 40.7 ppm. Propan-2-ol Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 490 mg/m<sup>3</sup>. STEL 15 minutes: 980 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm. Working Environment Authority (Denmark, 3/2024) acetone TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m<sup>3</sup>. STEL 15 minutes: 1200 mg/m3. STEL 15 minutes: 500 ppm. 4-hydroxy-4-methylpentan-2-one Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 480 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. 2-butoxyethyl acetate Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 134 mg/m<sup>3</sup>. STEL 15 minutes: 333 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. 1-Methoxy 2-propanol Working Environment Authority (Denmark, 3/2024) [1-methoxy-2-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 185 mg/m<sup>3</sup>. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. 2-Butoxyethanol Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. Propan-2-ol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 350 mg/m<sup>3</sup>. TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m<sup>3</sup>. STEL 15 minutes: 250 ppm. acetone Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. 4-hydroxy-4-methylpentan-2-one Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 120 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm. STEL 15 minutes: 240 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. 2-butoxyethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia,

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4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 133 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 333 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, 1-Methoxy 2-propanol 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. acetone EU OEL (Europe, 1/2022) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. EU OEL (Europe, 1/2022) Absorbed through skin. 2-butoxyethyl acetate TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m<sup>3</sup>. EU OEL (Europe, 1/2022) Absorbed through skin. 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m3. 2-Butoxyethanol EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 ma/m3. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. Propan-2-ol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m<sup>3</sup>. STEL 15 minutes: 250 ppm. STEL 15 minutes: 620 mg/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs acetone (Finland, 10/2021) TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m<sup>3</sup>. STEL 15 minutes: 630 ppm. STEL 15 minutes: 1500 mg/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs 4-hydroxy-4-methylpentan-2-one (Finland, 10/2021) TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. STEL 15 minutes: 360 mg/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs 2-butoxyethyl acetate (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 130 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 330 mg/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs ethyl (S)-2-hydroxypropionate (Finland, 10/2021) [Etyylilaktaatti] TWA 8 hours: 5 ppm. TWA 8 hours: 25 mg/m<sup>3</sup>.

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STEL 15 minutes: 10 ppm. STEL 15 minutes: 49 mg/m<sup>3</sup>.

1-Methoxy 2-propanol

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 370 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m<sup>3</sup>.

2-Butoxyethanol

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>.

Propan-2-ol

Ministry of Labor (France, 6/2024)

STEL 15 minutes: 400 ppm. Notes: Permissible limit values (circulars)

STEL 15 minutes: 980 mg/m³. Notes: Permissible limit values (circulars)

acetone

Ministry of Labor (France, 6/2024)

TWA 8 hours: 500 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 1210 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 2420 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 1000 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

4-hydroxy-4-methylpentan-2-one

Ministry of Labor (France, 6/2024)

TWA 8 hours: 50 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 240 mg/m<sup>3</sup>. Notes: Permissible limit values (circulars)

2-butoxyethyl acetate

Ministry of Labor (France, 6/2024) Absorbed through skin.

STEL 15 minutes: 333 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 66.5 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

1-Methoxy 2-propanol

Ministry of Labor (France, 6/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 188 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 375 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

2-Butoxyethanol Ministry of Labor (France, 6/2024) Absorbed through skin.

TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 49 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 246 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

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Propan-2-ol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. acetone TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 1200 mg/m<sup>3</sup>. PEAK 15 minutes: 2400 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm. DFG MAC-values list (Germany, 7/2023) Develop B. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 1200 mg/m<sup>3</sup>. PEAK 15 minutes: 2400 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. 4-hydroxy-4-methylpentan-2-one TWA 8 hours: 96 mg/m<sup>3</sup>. PEAK 15 minutes: 192 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) Develop D. Absorbed throuah skin. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 96 mg/m<sup>3</sup>. PEAK 15 minutes: 192 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. 2-butoxyethyl acetate TWA 8 hours: 65 mg/m<sup>3</sup>. PEAK 15 minutes: 130 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 66 ma/m<sup>3</sup>. PEAK 15 minutes: 132 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) 1-Methoxy 2-propanol TWA 8 hours: 370 mg/m<sup>3</sup>. PEAK 15 minutes: 740 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 370 mg/m<sup>3</sup>. PEAK 15 minutes: 740 mg/m³ 4 times per shift [Interval: 1 hour]. 2-Butoxyethanol TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

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Propan-2-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 400 ppm. TWA 8 hours: 980 mg/m<sup>3</sup>. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1225 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit acetone values (Greece, 9/2021) TWA 8 hours: 1780 mg/m<sup>3</sup>. STEL 15 minutes: 3560 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit 4-hydroxy-4-methylpentan-2-one values (Greece, 9/2021) TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. STEL 15 minutes: 360 mg/m<sup>3</sup>. 2-butoxyethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 20 ppm. TWA 8 hours: 135 mg/m<sup>3</sup>. STEL 15 minutes: 40 ppm. STEL 15 minutes: 270 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit 1-Methoxy 2-propanol values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m<sup>3</sup>. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1080 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit 2-Butoxyethanol values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>. Propan-2-ol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m<sup>3</sup>. PEAK 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) acetone TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. 2-butoxyethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 133 mg/m<sup>3</sup>. PEAK 15 minutes: 333 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through 1-Methoxy 2-propanol TWA 8 hours: 375 mg/m<sup>3</sup>. PEAK 15 minutes: 568 mg/m<sup>3</sup>. PEAK 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through 2-Butoxyethanol TWA 8 hours: 98 ma/m<sup>3</sup>. PEAK 15 minutes: 246 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.

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Propan-2-ol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. TWA 8 hours: 490 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. acetone Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) TWA 8 hours: 600 mg/m<sup>3</sup>. TWA 8 hours: 250 ppm. 4-hydroxy-4-methylpentan-2-one Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) TWA 8 hours: 240 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. 2-butoxyethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 333 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 133 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) 1-Methoxy 2-propanol Absorbed through skin. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 185 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. 2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. Propan-2-ol NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational acetone Exposure Limit Values OELV 8 hours: 500 ppm. OELV 8 hours: 1210 mg/m<sup>3</sup>. 4-hydroxy-4-methylpentan-2-one NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 50 ppm. OELV 8 hours: 240 mg/m<sup>3</sup>. 2-butoxyethyl acetate NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 133 mg/m<sup>3</sup>. OELV 15 minutes: 50 ppm. OELV 15 minutes: 333 mg/m<sup>3</sup>. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational 1-Methoxy 2-propanol Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m<sup>3</sup>. OELV 15 minutes: 150 ppm. OELV 15 minutes: 568 mg/m<sup>3</sup>. 2-Butoxyethanol NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m3. OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m<sup>3</sup>.

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Ecetone Legislative Decree No. 81/2008. Title IX. Protection from

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

Limit value 8 hours: 500 ppm. Limit value 8 hours: 1210 mg/m³.

2-butoxyethyl acetate

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 20 ppm.

Limit value 8 hours: 133 mg/m³.

Short Term 15 minutes: 50 ppm.

Short Term 15 minutes: 333 mg/m³.

1-Methoxy 2-propanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 100 ppm. Limit value 8 hours: 375 mg/m³. Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 568 mg/m³.

2-Butoxyethanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 20 ppm.

Limit value 8 hours: 98 mg/m³.

Short Term 15 minutes: 50 ppm.

Short Term 15 minutes: 246 mg/m³.

Propan-2-ol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 350 mg/m³. STEL 15 minutes: 600 mg/m³.

acetone

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

2-butoxyethyl acetate

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

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

1-Methoxy 2-propanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 568 mg/m³.
TWA 8 hours: 375 mg/m³.
STEL 15 minutes: 150 ppm.

2-Butoxyethanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 98 mg/m³.
TWA 8 hours: 20 ppm.
STEL 15 minutes: 50 ppm.
STEL 15 minutes: 246 mg/m³.

Propan-2-ol

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 350 mg/m³. TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 250 ppm.

acetone

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. STEL 15 minutes: 2420 mg/m³. STEL 15 minutes: 1000 ppm.

4-hydroxy-4-methylpentan-2-one

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

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TWA 8 hours: 120 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm.

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STEL 15 minutes: 240 mg/m³.
STEL 15 minutes: 50 ppm.

2-butoxyethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 70 mg/m³.
TWA 8 hours: 10 ppm.
STEL 15 minutes: 140 mg/m³.
STEL 15 minutes: 20 ppm.

1-Methoxy 2-propanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 190 mg/m³.
TWA 8 hours: 50 ppm.
STEL 15 minutes: 300 mg/m³.
STEL 15 minutes: 75 ppm.

2-Butoxyethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 50 mg/m³.
TWA 8 hours: 10 ppm.
STEL 15 minutes: 100 mg/m³.
STEL 15 minutes: 20 ppm.

gcetone Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>.

2-butoxyethyl acetate | Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

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

1-Methoxy 2-propanol Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.

2-Butoxyethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

zcetone EU OEL (Europe, 1/2022)

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>.

2-butoxyethyl acetate EU OEL (Europe, 1/2022) Absorbed through skin.

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

1-Methoxy 2-propanol EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.

2-Butoxyethanol EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

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acetone

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)

STEL 15 minutes: 2420 mg/m3. TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.

2-butoxyethyl acetate Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 135 mg/m3. STEL 15 minutes: 333 mg/m<sup>3</sup>. TWA 8 hours: 20.3 ppm. STEL 15 minutes: 50 ppm.

Ministry of Social Affairs and Employment, Legal limit values 1-Methoxy 2-propanol

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 563 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.

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

TWA 8 hours: 100 ppm. TWA 8 hours: 245 mg/m<sup>3</sup>.

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

TWA 8 hours: 125 ppm. TWA 8 hours: 295 mg/m<sup>3</sup>.

4-hydroxy-4-methylpentan-2-one FOR-2011-12-06-1358 (Norway, 12/2022)

> TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>.

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

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

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

TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m<sup>3</sup>.

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

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>.

Propan-2-ol Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations

and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

8/2023) Absorbed through skin. TWA 8 hours: 900 mg/m<sup>3</sup>. STEL 15 minutes: 1200 mg/m<sup>3</sup>.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

8/2023)

TWA 8 hours: 600 mg/m<sup>3</sup>. STEL 15 minutes: 1800 mg/m<sup>3</sup>.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

8/2023)

TWA 8 hours: 240 mg/m<sup>3</sup>.

Propan-2-ol

acetone

1-Methoxy 2-propanol

2-Butoxyethanol

acetone

4-hydroxy-4-methylpentan-2-one

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2-butoxyethyl acetate Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 300 mg/m<sup>3</sup>. 1-Methoxy 2-propanol Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 180 mg/m<sup>3</sup>. STEL 15 minutes: 360 mg/m<sup>3</sup>. 2-Butoxyethanol Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>. Propan-2-ol Portuguese Institute of Quality (Portugal, 11/2014) A4. TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm. acetone Portuguese Institute of Quality (Portugal, 11/2014) A4. TWA 8 hours: 500 ppm. STEL 15 minutes: 750 ppm. 4-hydroxy-4-methylpentan-2-one Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 50 ppm. Portuguese Institute of Quality (Portugal, 11/2014) A3. 2-butoxyethyl acetate TWA 8 hours: 20 ppm. 1-Methoxy 2-propanol Portuguese Institute of Quality (Portugal, 11/2014) A4. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. 2-Butoxyethanol Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm. Propan-2-ol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 200 mg/m<sup>3</sup>. VLA 8 hours: 81 ppm. Short term 15 minutes: 500 mg/m<sup>3</sup>. Short term 15 minutes: 203 ppm. HG 1218/2006, Annex 1, with subsequent modifications and acetone additions (Romania, 3/2024) VLA 8 hours: 1210 mg/m<sup>3</sup>. VLA 8 hours: 500 ppm. 4-hydroxy-4-methylpentan-2-one HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 150 mg/m<sup>3</sup>. VLA 8 hours: 32 ppm. Short term 15 minutes: 250 mg/m<sup>3</sup>. Short term 15 minutes: 53 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 2-butoxyethyl acetate additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 133 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm. Short term 15 minutes: 333 mg/m<sup>3</sup>. Short term 15 minutes: 50 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 1-Methoxy 2-propanol additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 375 mg/m<sup>3</sup>.

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VLA 8 hours: 100 ppm.

Short term 15 minutes: 568 mg/m<sup>3</sup>.

2-Butoxyethanol

Short term 15 minutes: 150 ppm.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 98 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm.

Short term 15 minutes: 246 mg/m<sup>3</sup>. Short term 15 minutes: 50 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Inhalation sensitiser.

TWA 8 hours: 500 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. STEL 15 minutes: 1000 mg/m3. STEL 15 minutes: 400 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Inhalation sensitiser.

TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 133 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 333 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

1-Methoxy 2-propanol Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin. Inhalation sensitiser.

TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

> TWA 8 hours: 500 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm.

KTV 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

KTV 15 minutes: 1000 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 2420 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 96 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 40 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 192 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to

Propan-2-ol

acetone

2-butoxyethyl acetate

2-Butoxyethanol

Propan-2-ol

acetone

4-hydroxy-4-methylpentan-2-one

2-butoxyethyl acetate

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exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 133 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 333 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 568 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

National institute of occupational safety and health (Spain, 1/2024)

TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024)

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024)

TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 133 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain,

1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 245 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

1-Methoxy 2-propanol

2-Butoxyethanol

Propan-2-ol

acetone

4-hydroxy-4-methylpentan-2-one

2-butoxyethyl acetate

1-Methoxy 2-propanol

2-Butoxyethanol

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Work environment authority Regulation 2018:1 (Sweden, Propan-2-ol 11/2022) TWA 8 hours: 150 ppm. TWA 8 hours: 350 mg/m<sup>3</sup>. STEL 15 minutes: 250 ppm. STEL 15 minutes: 600 mg/m<sup>3</sup>. acetone Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m<sup>3</sup>. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1200 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, 4-hydroxy-4-methylpentan-2-one 11/2022) TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 240 mg/m<sup>3</sup>. 2-butoxyethyl acetate Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 70 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 333 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, 1-Methoxy 2-propanol 11/2022) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m<sup>3</sup>. TWA 8 hours: 190 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. Propan-2-ol SUVA (Switzerland, 1/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m<sup>3</sup>. acetone SUVA (Switzerland, 1/2024) TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m<sup>3</sup>. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 2400 mg/m<sup>3</sup>. SUVA (Switzerland, 1/2024) Absorbed through skin. 4-hydroxy-4-methylpentan-2-one TWA 8 hours: 20 ppm. TWA 8 hours: 96 mg/m<sup>3</sup>. STEL 15 minutes: 40 ppm. STEL 15 minutes: 192 mg/m<sup>3</sup>. SUVA (Switzerland, 1/2024) Absorbed through skin. 2-butoxyethyl acetate TWA 8 hours: 10 ppm. Form: vapour and aerosols. TWA 8 hours: 66 mg/m<sup>3</sup>. Form: vapour and aerosols. STEL 15 minutes: 20 ppm. Form: vapour and aerosols. STEL 15 minutes: 132 mg/m<sup>3</sup>. Form: vapour and aerosols. SUVA (Switzerland, 1/2024) 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 720 mg/m<sup>3</sup>. SUVA (Switzerland, 1/2024) Absorbed through skin. 2-Butoxyethanol TWA 8 hours: 10 ppm. Date of issue/Date of revision : 03/06/2025 : 16/01/2024 Version : 1.01 21/44 Date of previous issue

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TWA 8 hours: 49 mg/m<sup>3</sup>. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m<sup>3</sup>. Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 1250 mg/m<sup>3</sup>. STEL 15 minutes: 500 ppm. TWA 8 hours: 999 mg/m<sup>3</sup>. TWA 8 hours: 400 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) acetone STEL 15 minutes: 3620 mg/m<sup>3</sup>. STEL 15 minutes: 1500 ppm. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. EH40/2005 WELs (United Kingdom (UK), 1/2020) 4-hydroxy-4-methylpentan-2-one STEL 15 minutes: 362 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 2-butoxyethyl acetate through skin. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 332 mg/m<sup>3</sup>. TWA 8 hours: 133 mg/m<sup>3</sup>. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 1-Methoxy 2-propanol through skin. STEL 15 minutes: 560 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 2-Butoxyethanol through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 123 mg/m3.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
ecetone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)  BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.
Propan-2-ol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)  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.  BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.
acetone	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)  BEI: 20 mg/g creatinine, acetone [in urine]. Sampling time: at the

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end of the work shift.

BEI: 39 mmol/mol creatinine, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 20 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

No exposure indices known.

2-butoxyethyl acetate

Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic

Government regulation of Czech Republic Limit Values of

acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

2-Butoxyethanol

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

2-butoxyethyl acetate

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate]

BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).

2-Butoxyethanol

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate]

BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).

DFG BEI-values list (Germany, 7/2023)

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, 2/2024)

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.

DFG BEI-values list (Germany, 7/2023)

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

TRGS 903 - BEI Values (Germany, 2/2024)

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

DFG BEI-values list (Germany, 7/2023) 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 longterm exposures: at the end of the shift after several shifts.

Propan-2-ol

acetone

2-butoxyethyl acetate

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### TRGS 903 - BEI Values (Germany, 2/2024)

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, 7/2023)

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, 2/2024)

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

### DFG BEI-values list (Germany, 7/2023) 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 longterm exposures: at the end of the shift after several shifts.

### TRGS 903 - BEI Values (Germany, 2/2024)

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.

#### No exposure indices known.

### Propan-2-ol

2-Butoxyethanol

### 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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.

#### acetone

### 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 1380 µmol/l, acetone [in urine]. Sampling time: at the end of

BEI: 80 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.

acetone

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

BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift -As soon as possible after exposure ceases.

### 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.

### No exposure indices known.

#### Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

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

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

Propan-2-ol

#### Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

· 16/01/2024

BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

### acetone

No exposure indices known.

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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. Portuguese Institute of Quality (Portugal, 11/2014) acetone BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift. 2-Butoxyethanol Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift. Propan-2-ol HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift. acetone HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift. acetone Government regulation SR c. 355/2006 (Slovakia, 5/2024) BLV: 103.9 µmol/mmol creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 53.36 mg/g creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1378 µmol/l, as acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 80 mg/l, as acetone [in urine]. Sampling time: at the end of exposure or work shift. Propan-2-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) 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. acetone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 80 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. 2-butoxyethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) 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. Regulation on protection of workers from the risks related to 1-Methoxy 2-propanol exposure to chemical substances at work (Slovenia, 4/2024) BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift. 2-Butoxyethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) 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.

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Propan-2-ol

National institute of occupational safety and health (Spain, 1/2024)

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

acetone

National institute of occupational safety and health (Spain, 1/2024)

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

2-Butoxyethanol

National institute of occupational safety and health (Spain, 1/2024)

VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.

No exposure indices known.

Propan-2-ol

SUVA (Switzerland, 1/2024)

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.

acetone

SUVA (Switzerland, 1/2024)

BEI: 50 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 0.86 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

2-butoxyethyl acetate

SUVA (Switzerland, 1/2024)

BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

1-Methoxy 2-propanol

SUVA (Switzerland, 1/2024)

BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: 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.

2-Butoxyethanol

SUVA (Switzerland, 1/2024)

BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

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**2**-Butoxyethanol

EH40/2005 BMGVs (United Kingdom (UK), 1/2020)

BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine].

Recommended monitoring procedures

Sampling time: post shift.

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** 

Result

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Propan-2-ol

acetone

**DNEL - Workers - Long term - Inhalation** 

500 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

888 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

26 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

51 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

89 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Short term - Inhalation

178 mg/m³
<u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 

319 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

1000 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

62 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Dermal** 

62 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Dermal** 

186 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

200 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

1210 mg/m³ Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

2420 mg/m³ Effects: Local

4-hydroxy-4-methylpentan-2-one DNEL - General population - Long term - Oral

1.67 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

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5.8 mg/m³
<u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 

32.6 mg/m<sup>3</sup>

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Effects: Systemic

**DNEL - General population - Long term - Dermal** 

33 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

240 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Dermal** 

467 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

80 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

133 mg/m<sup>3</sup> Effects: Systemic

DNEL - General population - Short term - Inhalation

200 ma/m<sup>3</sup> Effects: Local

DNEL - General population - Long term - Oral

8.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

36 mg/kg bw/day Effects: Systemic

**DNEL - General population - Short term - Dermal** 

72 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Dermal** 

102 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Dermal** 

120 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

169 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

333 ma/m<sup>3</sup> Effects: Local

DNEL - General population - Long term - Oral

33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m<sup>3</sup> Effects: Systemic

**DNEL - General population - Long term - Dermal** 

78 mg/kg bw/day Effects: Systemic

1-Methoxy 2-propanol

2-butoxyethyl acetate

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**DNEL - Workers - Long term - Dermal** 

183 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

369 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

553.5 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

553.5 mg/m<sup>3</sup> Effects: Systemic

DNEL - General population - Long term - Oral

6.3 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

26.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

98 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

246 mg/m<sup>3</sup> Effects: Local

DNEL - General population - Short term - Inhalation

426 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

1091 ma/m<sup>3</sup> Effects: Systemic

#### **PNECs**

Not available.

2-Butoxyethanol

#### 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

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#### **Hygiene measures**

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

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### **Skin protection**

**Hand protection** 

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

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

Initial boiling point and

boiling range

: Not available.

Ingredient name	°C	°F	Method
acetone	56.05	132.9	
Propan-2-ol	83	181.4	

**Flammability** : Not available.

Lower and upper explosion : Lower: 2% (Isopropyl alcohol)

limit Upper: 13% (acetone)

Flash point : Closed cup: -19°C (-2.2°F)

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### **SECTION 9: Physical and chemical properties**

#### **Auto-ignition temperature**

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

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

Solubility(ies)

Not available.

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

Vapour pressure

	Va	Vapour Pressure at 20°C			pour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
acetone	180.01463	24				
Propan-2-ol	33.00268	4.4				

: Not available. Relative density : 0.9 g/cm<sup>3</sup> **Density** : Not available. Vapour density

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not available. : Not available. **Oxidising properties** 

9.2.2 Other safety characteristics

Not applicable.

### SECTION 10: Stability and reactivity

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

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.

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

**Acute toxicity** 

Product/ingredient name Result

Propan-2-ol Rabbit - Dermal - LD50

12800 mg/kg

Rat - Oral - LD50

5000 mg/kg

Toxic effects: Behavioral - General anesthetic

acetone Rat - Oral - LD50

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including

change in righting reflex) Behavioral - Tremor

Rat - Oral - LD50 4-hydroxy-4-methylpentan-2-one

2520 mg/kg

Toxic effects: Behavioral - Tremor Behavioral - Convulsions or

effect on seizure threshold Liver - Other changes

Rabbit - Dermal - LD50

13500 mg/kg

Rat - Oral - LD50 2-butoxyethyl acetate

2400 mg/kg

Toxic effects: Kidney, Ureter, and Bladder - Hematuria Kidney, Ureter, and Bladder - Other changes in urine composition

Rabbit - Dermal - LD50

1500 mg/kg

Toxic effects: Kidney, Ureter, and Bladder - Hematuria Kidney,

Ureter, and Bladder - Other changes in urine composition

Blood - Normocytic anemia

Rabbit - Dermal - LD50 1-Methoxy 2-propanol

13 g/kg

Rat - Oral - LD50

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or

Respiration - Dyspnea

**Conclusion/Summary [Product]**: Not available.

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
VARIVA SOLVA 8776-00 SPRAY	24242.4	16025.6	N/A	40.0	N/A
Propan-2-ol	5000	12800	N/A	N/A	N/A
acetone	5800	N/A	N/A	N/A	N/A
4-hydroxy-4-methylpentan-2-one	2520	13500	N/A	N/A	N/A
2-butoxyethyl acetate	2400	1500	N/A	11	N/A
1-Methoxy 2-propanol	6600	13000	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A

**Skin corrosion/irritation** 

Product/ingredient name Result

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Propan-2-ol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

acetone Rabbit - Skin - Mild irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 395 mg

Rabbit - Skin - Mild irritant 4-hydroxy-4-methylpentan-2-one

Amount/concentration applied: 500 mg

2-butoxyethyl acetate Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant 1-Methoxy 2-propanol

Amount/concentration applied: 500 mg

2-Butoxyethanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]**: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Propan-2-ol Rabbit - Eyes - Moderate irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant Amount/concentration applied: 10 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

acetone **Human - Eyes - Mild irritant** 

Amount/concentration applied: 186300 ppm

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 uL

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

4-hydroxy-4-methylpentan-2-one Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL

2-butoxyethyl acetate Rabbit - Eyes - Mild irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

1-Methoxy 2-propanol Rabbit - Eyes - Mild irritant

> **Duration of treatment/exposure**: 24 hours Amount/concentration applied: 500 mg

2-Butoxyethanol Rabbit - Eyes - Moderate irritant

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<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]**: Not available.

Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]**: Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

Propan-2-ol STOT SE 3, H336 (Narcotic effects) acetone STOT SE 3, H336 (Narcotic effects)

4-hydroxy-4-methylpentan-2-one STOT SE 3, H335 (Respiratory tract irritation) ethyl (S)-2-hydroxypropionate STOT SE 3, H335 (Respiratory tract irritation)

1-Methoxy 2-propanol STOT SE 3, H336 (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.

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

dizziness.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics

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

> watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

: Adverse symptoms may include the following: Skin contact

pain or irritation

redness dryness cracking

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

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.

The product does not meet the criteria to be considered as having endocrine **Conclusion/Summary [Product]** 

disrupting properties according to the criteria set out in either Regulation (EC)

No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

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#### 12.1 Toxicity

#### Product/ingredient name

Propan-2-ol

acetone

### Result

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

1400000 µg/l [48 hours]

Effect: Mortality

#### Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - Rasbora heteromorpha

Size: 1 to 3 cm

4200000 µg/l [96 hours]

Effect: Mortality

#### Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna

10000 µg/l [48 hours] Effect: Mortality

#### Acute - LC50 - Fresh water

Fish - Guppy - Poecilia reticulata Age: 4 to 12 months; Size: 2 to 10 cm

5600 ppm [96 hours] Effect: Mortality

#### **Chronic - NOEC - Marine water**

Algae - Green algae - Ulva pertusa

4.95 mg/l [96 hours] Effect: Reproduction

### Acute - EC50 - Marine water

Algae - Green algae - Ulva pertusa

20.565 mg/l [96 hours] Effect: Reproduction

### **Chronic - NOEC - Fresh water**

Crustaceans - Daphnia - Daphniidae

0.016 ml/l [21 days] Effect: Population

#### **Chronic - NOEC - Marine water**

Fish - Threespine stickleback - Gasterosteus aculeatus -

Larvae Age: 7 days 5 µg/l [42 days] Effect: Growth

#### Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

Size: 40 to 100 mm 1250000 µg/l [96 hours]

Effect: Mortality

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

800000 µg/l [48 hours]

Effect: Mortality

### **Conclusion/Summary [Product]**: Not available.

### 12.2 Persistence and degradability

Not available.

2-Butoxyethanol

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Conclusion/Summary [Product] : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Propan-2-ol	0.05	-	Low
acetone	-0.23	-	Low
4-hydroxy-4-methylpentan-	-0.14 to 1.03	-	Low
2-one			
2-butoxyethyl acetate	1.51	-	Low
ethyl (S)	0.31	-	Low
-2-hydroxypropionate			
1-Methoxy 2-propanol	<1	-	Low
2-Butoxyethanol	0.81	-	Low

### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
<b>P</b> ropan-2-ol	0.54	3.4364
acetone	0.56	3.6548
4-hydroxy-4-methylpentan-2-one	1.18	15.2986
2-butoxyethyl acetate	2.05	112.842
ethyl (S)-2-hydroxypropionate	1.25	17.9589
1-Methoxy 2-propanol	1.02	10.447
2-Butoxyethanol	1.83	67.3685

### Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	M	Т	vPvM	vP	vM
Propan-2-ol	No	No	No	No	No	No	No
acetone	No	No	No	No	No	No	No
4-hydroxy-4-methylpentan- 2-one	No	No	No	No	No	No	No
2-butoxyethyl acetate	No	No	No	No	No	No	No
ethyl (S) -2-hydroxypropionate	No	No	No	No	No	No	No
1-Methoxy 2-propanol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No

**Mobility** 

: Not available.

**Conclusion/Summary** 

: The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	T	vPvB	vP	vB
Propan-2-ol	No	No	No	No	No	No	No
acetone	No	No	No	No	No	No	No
4-hydroxy-4-methylpentan- 2-one	No	No	No	No	No	No	No
2-butoxyethyl acetate	No	No	No	No	No	No	No
ethyl (S) -2-hydroxypropionate	No	No	No	No	No	No	No
1-Methoxy 2-propanol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

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Product/ingredient name	PBT	P	В	T	vPvB	νP	vB	
Propan-2-ol	No							
acetone	No							
4-hydroxy-4-methylpentan- 2-one	No							
2-butoxyethyl acetate	No							
ethyl (S) -2-hydroxypropionate	No							
1-Methoxy 2-propanol 2-Butoxyethanol	No No							

**Conclusion/Summary Regulation (EC) No. 1272/2008** [CLP]

: The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 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.

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## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	<b>☑</b> N1263	<b>☑</b> N1263	<b>V</b> N1263	<b>☑</b> N1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT

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### **SECTION 14: Transport information**

14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	11	II
14.5 Environmental hazards	No.	Yes.	₩o.	₩o.

### Additional information

: Special provisions 640 (C) ADR/RID

Tunnel code (D/E)

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

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

**IATA** The environmentally hazardous substance mark may appear if required by other

transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in

bulk according to IMO instruments

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

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

**Substances of very high concern** 

None of the components are listed.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
VARIVA SOLVA 8776-00 SPRAY	≥90	3

Labelling

Other EU regulations

**Industrial emissions** : Listed

(integrated pollution prevention and control) -

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions,

and significant disappearances and thefts should be reported to the relevant

national contact point.

Ozone depleting substances (EU 2024/590)

Not listed.

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### SECTION 15: Regulatory information

### 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** 

: Category 2 **VbF** class Limitation of the use of : Permitted.

organic solvents

**Belgium** 

**Czech Republic** 

Storage code : 1

**Denmark** 

: 1 Fire class Executive Order No. 1795/2015

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

**:** 5-3 **MAL-code** 

**Protection based on MAL** 

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

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

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

MAL-code: 5-3

**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.

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- 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

Carcinogenic waste

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

### **Finland**

**France** 

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

### Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<b>5</b> .2.1 5.2.5	Total dust Organic substances	4.7 95.3
5.2.5 [I]	Organic substances	86.3

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

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**Netherlands** 

**Water Discharge Policy** 

(ABM)

(1) Highly toxic for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

**Norway** Sweden

Flammable liquid class

(SRVFS 2005:10)

**Switzerland** 

**VOC** content : VOC (w/w): 86.3%

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.

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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	
Eye Dam. 1, H318	On basis of test data 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.

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### SECTION 16: Other information

H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

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

**ACUTE TOXICITY - Category 3** Acute Tox. 3 **ACUTE TOXICITY - Category 4** Acute Tox. 4

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

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**Version** : 1.01

#### **Notice to reader**

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

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