## SAFETY DATA SHEET



**TEKNOCOAT 1687-58** 

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

#### 1.1 Product identifier

: TEKNOCOAT 1687-58 **Product name** 

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

**Product use** : Paint.

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

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

e-mail address of person

: Prod-safe@teknos.com

responsible for this SDS

**National contact** 

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

#### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

: 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 Irrit. 2, H319 **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.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

**Precautionary statements** 

**Storage** 

**Prevention** : P280 - Wear eye or face protection.

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

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sources. No smoking.

P261 - Avoid breathing vapour.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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

national and international regulations.

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## **SECTION 2: Hazards identification**

Hazardous ingredients

: Contains: n-Butyl acetate

articles

**Supplemental label** elements

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

#### 2.3 Other hazards

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

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

vPvB.

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

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤5	Aquatic Chronic 4, H413	-	[1]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226	-	[2]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤3	Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared above.	-	[1]

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

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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

#### **Protection of first-aiders**

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

## 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

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

pain or irritation watering redness

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data.

Ingestion : No specific data.

## 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

**Small spill** 

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

Large spill

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

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

#### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling

#### **Protective measures**

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

#### Advice on general occupational hygiene

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

#### 7.2 Conditions for safe storage, including any incompatibilities

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

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

#### **Danger criteria**

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

#### 7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : Not available.

## solutions

## SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

Occupational exposure limits

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Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m³ 8 hours.
Ethanol	TWA: 50 ppm 8 hours.
Ethanoi	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 1000 ppm 8 hours.
	TWA: 1000 ppin 6 hours.  TWA: 1900 mg/m³ 8 hours.
	CEIL: 2000 ppm, 3 times per shift, 60 minutes.
	CEIL: 3800 mg/m³, 3 times per shift, 60 minutes.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m³ 8 hours.
	PEAK: 800 ppm, 4 times per shift, 15 minutes.
	PEAK: 2000 mg/m³, 4 times per shift, 15 minutes.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours.
	PEAK: 1468 mg/m³, 4 times per shift, 15 minutes.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.  CEIL: 550 mg/m³, 8 times per shift, 5 minutes.
n Butul contate	
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethanol	Limit values (Belgium, 5/2021).
	TWA: 1000 ppm 8 hours.
	TWA: 1907 mg/m³ 8 hours.
Propan-2-ol	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m³ 15 minutes.
Ethyl acetate	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours.  STEL: 1468 mg/m³ 15 minutes.
	STEL: 400 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
2 Motroxy 1 motrylotryr doctate	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
In Buty, destate	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m³ 8 hours.
	Limit value 15 min: 723 mg/m³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethanol	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 1000 mg/m³ 8 hours.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of
1. 1. Span 2 St	
1 10pail 2 01	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 980 mg/m³ 8 hours.

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Limit value 15 min: 1225 mg/m³ 15 minutes.

Ethyl acetate

Ministry of Labour and Social Policy and to

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

Limit value 8 hours: 734 mg/m³ 8 hours. Limit value 15 min: 400 ppm 15 minutes. Limit value 15 min: 1468 mg/m³ 15 minutes. Limit value 8 hours: 200 ppm 8 hours.

2-Methoxy-1-methylethyl acetate Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed

through skin.

Limit value 8 hours: 275 mg/m³ 8 hours. Limit value 15 min: 550 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.

n-Butyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours.

Ethanol Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). ELV: 1900 mg/m³ 8 hours. ELV: 1000 ppm 8 hours.

Propan-2-ol Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

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

Ethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). STELV: 400 ppm 15 minutes.

ELV: 200 ppm 8 hours.

STELV: 1468 mg/m<sup>3</sup> 15 minutes.

ELV: 734 mg/m<sup>3</sup> 8 hours.

2-Methoxy-1-methylethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/

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

STELV: 550 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m³ 8 hours. ELV: 50 ppm 8 hours.

n-Butyl acetate Department of labour inspection (Cyprus, 7/2021).

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

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

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

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

through skin.

STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours.

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SECTION 8: Exposure controls/personal protection Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 10/2022). TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m3 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours. Ethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 1000 mg/m<sup>3</sup> 8 hours. TWA: 522 ppm 8 hours. STEL: 3000 mg/m<sup>3</sup> 15 minutes. STEL: 1566 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Propan-2-ol Republic, 10/2022), Absorbed through skin. TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Ethyl acetate Republic, 10/2022). TWA: 700 mg/m<sup>3</sup> 8 hours. TWA: 191.1 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. STEL: 245.7 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 270 mg/m<sup>3</sup> 8 hours. TWA: 49.14 ppm 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100.1 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). [Butyl n-Butyl acetate acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Ethanol TWA: 1000 ppm 8 hours. TWA: 1900 mg/m<sup>3</sup> 8 hours. STEL: 3800 mg/m<sup>3</sup> 15 minutes. STEL: 2000 ppm 15 minutes. Propan-2-ol Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 490 mg/m<sup>3</sup> 8 hours. STEL: 980 mg/m3 15 minutes. STEL: 400 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Ethyl acetate TWA: 150 ppm 8 hours. TWA: 540 mg/m<sup>3</sup> 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Working Environment Authority (Denmark, 6/2022). [2-Methoxy-1-methylethyl acetate] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.

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Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Ethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 1000 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m<sup>3</sup> 15 minutes. STEL: 1000 ppm 15 minutes. Propan-2-ol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 350 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m<sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, Ethyl acetate 12/2022). TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m<sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, 2-Methoxy-1-methylethyl acetate 12/2022). Absorbed through skin. Skin sensitiser. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative Ethyl acetate occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m<sup>3</sup> 15 minutes. Ethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m<sup>3</sup> 8 hours. STEL: 1300 ppm 15 minutes. STEL: 2500 mg/m<sup>3</sup> 15 minutes. Propan-2-ol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m<sup>3</sup> 8 hours. Date of issue/Date of revision : 14/05/2024 9/33 Date of previous issue : No previous validation Version: 1

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STEL: 250 ppm 15 minutes. STEL: 620 mg/m3 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Ethyl acetate (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 730 mg/m<sup>3</sup> 8 hours. STEL: 400 ppm 15 minutes. STEL: 1470 mg/m<sup>3</sup> 15 minutes. 2-Methoxy-1-methylethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Ministry of Labor (France, 10/2022). Notes: Binding regulatory n-Butyl acetate limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Ethanol Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 1000 ppm 8 hours. TWA: 1900 mg/m<sup>3</sup> 8 hours. STEL: 5000 ppm 15 minutes. STEL: 9500 mg/m<sup>3</sup> 15 minutes. Ministry of Labor (France, 10/2022). Notes: Permissible limit Propan-2-ol values (circulars) STEL: 400 ppm 15 minutes. STEL: 980 mg/m<sup>3</sup> 15 minutes. Ethyl acetate Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. DFG MAC-values list (Germany, 7/2022). n-Butyl acetate TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m<sup>3</sup> 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m<sup>3</sup> 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m<sup>3</sup> 15 minutes. PEAK: 124 ppm 15 minutes. TRGS 900 OEL (Germany, 6/2022). Ethanol TWA: 380 mg/m<sup>3</sup> 8 hours. PEAK: 1520 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 380 mg/m<sup>3</sup> 8 hours. PEAK: 1520 mg/m³, 4 times per shift, 15 minutes. Propan-2-ol TRGS 900 OEL (Germany, 6/2022).

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

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

TWA: 200 ppm 8 hours.

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

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

PEAK: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022).

TWA: 730 mg/m<sup>3</sup> 8 hours. PEAK: 1460 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes.

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

TWA: 200 ppm 8 hours.

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

TWA: 750 mg/m<sup>3</sup> 8 hours.

PEAK: 1500 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022).

TWA: 270 mg/m<sup>3</sup> 8 hours. PEAK: 270 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes.

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

TWA: 50 ppm 8 hours.

PEAK: 50 ppm, 4 times per shift, 15 minutes.

TWA: 270 mg/m<sup>3</sup> 8 hours.

PEAK: 270 mg/m³, 4 times per shift, 15 minutes.

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021).

TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.

Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 9/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m<sup>3</sup> 8 hours.

Propan-2-ol Presidential Decree 307/1986: Occupational exposure limit

> values (Greece, 9/2021). TWA: 400 ppm 8 hours. TWA: 980 mg/m<sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m<sup>3</sup> 15 minutes.

Ethyl acetate Presidential Decree 307/1986: Occupational exposure limit

> TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.

values (Greece, 9/2021).

2-Methoxy-1-methylethyl acetate Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 9/2021). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 15 minutes.

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Ethyl acetate

n-Butyl acetate

Ethanol

2-Methoxy-1-methylethyl acetate

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. n-Butyl acetate Inhalation sensitiser. TWA: 241 mg/m<sup>3</sup> 8 hours. PEAK: 723 mg/m<sup>3</sup> 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 1900 mg/m<sup>3</sup> 8 hours. PEAK: 3800 mg/m<sup>3</sup> 15 minutes. PEAK: 2000 ppm 15 minutes. TWA: 1000 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Propan-2-ol through skin. Skin sensitiser. Inhalation sensitiser. TWA: 500 mg/m<sup>3</sup> 8 hours. PEAK: 1000 mg/m<sup>3</sup> 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Ethyl acetate Inhalation sensitiser. TWA: 734 mg/m<sup>3</sup> 8 hours. PEAK: 1468 mg/m³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). 2-Methoxy-1-methylethyl acetate TWA: 275 mg/m<sup>3</sup> 8 hours. PEAK: 550 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [butvl acetate, all isomers] TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ethanol TWA: 1900 mg/m<sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. Ethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 540 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. 2-Methoxy-1-methylethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate **Exposure Limit Values** OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m<sup>3</sup> 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m<sup>3</sup> 15 minutes. NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Ethanol Exposure Limit Values (OELVs) OELV-15min: 1000 ppm 15 minutes. NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Propan-2-ol Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Ethyl acetate **Exposure Limit Values** OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m3 15 minutes.

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OELV-8hr: 734 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate

NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m3 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m<sup>3</sup> 15 minutes.

EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate

occupational exposure limit values

STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

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

> Short Term: 400 ppm 15 minutes. Short Term: 1468 mg/m<sup>3</sup> 15 minutes.

8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m<sup>3</sup> 8 hours.

2-Methoxy-1-methylethyl acetate Legislative Decree No. 819/2008. Title IX. Protection from

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

8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m<sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m<sup>3</sup> 15 minutes.

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

> TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes.

TWA: 50 ppm 8 hours.

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

TWA: 1000 mg/m<sup>3</sup> 8 hours.

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

TWA: 350 mg/m<sup>3</sup> 8 hours. STEL: 600 mg/m3 15 minutes.

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

> TWA: 200 mg/m<sup>3</sup> 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m<sup>3</sup> 15 minutes.

TWA: 54 ppm 8 hours.

Ethanol

2-Methoxy-1-methylethyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

> Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes.

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

> TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.

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

> TWA: 1000 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m<sup>3</sup> 15 minutes. STEL: 1000 ppm 15 minutes.

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Propan-2-ol

TWA: 350 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m<sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes.

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

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TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m<sup>3</sup> CEIL: 300 ppm 2-Methoxy-1-methylethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 250 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes. STEL: 75 ppm 15 minutes. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I Ethyl acetate (Luxembourg, 3/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ethyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL. 8-h TWA: 241 mg/m<sup>3</sup> 8 hours. STEL,15-min: 723 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours. Ethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 260 mg/m3 8 hours.

Ethyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). STEL,15-min: 1468 mg/m3 15 minutes.

OEL, 8-h TWA: 734 mg/m<sup>3</sup> 8 hours. STEL,15-min: 400 ppm 15 minutes.

STEL,15-min: 1900 mg/m3 15 minutes. STEL,15-min: 1000 ppm 15 minutes. OEL, 8-h TWA: 137 ppm 8 hours.

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2-Methoxy-1-methylethyl acetate

OEL, 8-h TWA: 200 ppm 8 hours.

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).

OEL, 8-h TWA: 550 mg/m3 8 hours. OEL, 8-h TWA: 100 ppm 8 hours.

n-Butyl acetate

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

STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.

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

limit value

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

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

TWA: 500 ppm 8 hours. TWA: 950 mg/m<sup>3</sup> 8 hours.

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

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

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

limit value

TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours.

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

STEL: 1468 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.

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

skin. Notes: indicative limit value

TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland. 2/2021).

TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 720 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

TWA: 1900 mg/m<sup>3</sup> 8 hours.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 900 mg/m<sup>3</sup> 8 hours. STEL: 1200 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

TWA: 734 mg/m<sup>3</sup> 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 260 mg/m<sup>3</sup> 8 hours. STEL: 520 mg/m<sup>3</sup> 15 minutes.

Ethanol

Propan-2-ol

Ethyl acetate

2-Methoxy-1-methylethyl acetate

n-Butyl acetate

Ethanol

Propan-2-ol

Ethyl acetate

2-Methoxy-1-methylethyl acetate

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Portuguese Institute of Quality (Portugal, 11/2014). n-Butyl acetate TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. Ethanol Portuguese Institute of Quality (Portugal, 11/2014). STEL: 1000 ppm 15 minutes. Propan-2-ol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. Ethyl acetate Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and n-Butyl acetate additions (Romania, 3/2021). VLA: 241 mg/m<sup>3</sup> 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m<sup>3</sup> 15 minutes. Short term: 150 ppm 15 minutes. Ethanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1900 mg/m<sup>3</sup> 8 hours. VLA: 1000 ppm 8 hours. Short term: 9500 mg/m3 15 minutes. Short term: 5000 ppm 15 minutes. Propan-2-ol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 200 mg/m<sup>3</sup> 8 hours. VLA: 81 ppm 8 hours. Short term: 500 mg/m<sup>3</sup> 15 minutes. Short term: 203 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Ethyl acetate additions (Romania, 3/2021). VLA: 734 mg/m<sup>3</sup> 8 hours. VLA: 200 ppm 8 hours. Short term: 1468 mg/m<sup>3</sup> 15 minutes. Short term: 400 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 275 mg/m<sup>3</sup> 8 hours. VLA: 50 ppm 8 hours. Short term: 550 mg/m<sup>3</sup> 15 minutes. Short term: 100 ppm 15 minutes. n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 960 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. STEL: 1920 mg/m<sup>3</sup> 15 minutes. STEL: 1000 ppm 15 minutes. Propan-2-ol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.

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STEL: 1000 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.

TWA: 734 mg/m<sup>3</sup> 8 hours.

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

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Ethyl acetate

TWA: 200 ppm 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m3 15 minutes. STEL: 100 ppm 15 minutes. n-Butyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Ethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 960 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. KTV: 1920 mg/m³, 4 times per shift, 15 minutes. KTV: 1000 ppm, 4 times per shift, 15 minutes. Propan-2-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. KTV: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes. Ethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 734 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. KTV: 1468 mg/m³, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to 2-Methoxy-1-methylethyl acetate exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 550 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. n-Butyl acetate National institute of occupational safety and health (Spain, 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, Ethanol 4/2022). STEL: 1000 ppm 15 minutes. STEL: 1910 mg/m<sup>3</sup> 15 minutes. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022). TWA: 200 ppm 8 hours. TWA: 500 mg/m<sup>3</sup> 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m<sup>3</sup> 15 minutes. Ethyl acetate National institute of occupational safety and health (Spain, 4/2022). TWA: 200 ppm 8 hours. TWA: 734 mg/m<sup>3</sup> 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.

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TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 500 ppm 8 hours. TWA: 1000 mg/m<sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1900 mg/m<sup>3</sup> 15 minutes. Propan-2-ol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 350 mg/m<sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 600 mg/m<sup>3</sup> 15 minutes. Ethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 550 mg/m<sup>3</sup> 8 hours. STEL: 300 ppm 15 minutes. STEL: 1100 mg/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 2-Methoxy-1-methylethyl acetate 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m<sup>3</sup> 15 minutes. Ethanol SUVA (Switzerland, 1/2023). TWA: 500 ppm 8 hours. TWA: 960 mg/m<sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1920 mg/m<sup>3</sup> 15 minutes. Propan-2-ol SUVA (Switzerland, 1/2023). TWA: 200 ppm 8 hours. TWA: 500 mg/m<sup>3</sup> 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m³ 15 minutes. Ethyl acetate SUVA (Switzerland, 1/2023). STEL: 400 ppm 15 minutes. STEL: 1460 mg/m<sup>3</sup> 15 minutes. TWA: 200 ppm 8 hours. TWA: 730 mg/m<sup>3</sup> 8 hours. SUVA (Switzerland, 1/2023). 2-Methoxy-1-methylethyl acetate TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours.

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STEL: 50 ppm 15 minutes. STEL: 275 mg/m<sup>3</sup> 15 minutes.

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EH40/2005 WELs (United Kingdom (UK), 1/2020). n-Butyl acetate STEL: 966 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. Ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m<sup>3</sup> 8 hours. Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m<sup>3</sup> 8 hours. TWA: 400 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Ethyl acetate STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. TWA: 734 mg/m<sup>3</sup> 8 hours. 2-Methoxy-1-methylethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Phosphoric acid STEL: 2 mg/m³ 15 minutes. TWA: 1 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Butanone through skin. STEL: 899 mg/m<sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Formaldehyde STEL: 2.5 mg/m<sup>3</sup> 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Ethylbenzene through skin. STEL: 552 mg/m<sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m<sup>3</sup> 8 hours.

#### **Biological exposure indices**

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

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No exposure indices known.

Propan-2-ol

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

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

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

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

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

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

No exposure indices known.

Propan-2-ol

No exposure indices known.

Propan-2-ol

No exposure indices known.

Propan-2-ol

Propan-2-ol

No exposure indices known.

Propan-2-ol

Propan-2-ol

No exposure indices known.

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

BEI: 430 µmol/I, 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.

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

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

#### 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.

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

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

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

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

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

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

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

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Propan-2-ol	SUVA (Switzerland, 1/2023)
	BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately
	after exposure or after working hours.
	BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after
	exposure or after working hours.
	BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately
	after exposure or after working hours.
	BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after
	exposure or after working hours.
Butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018)
	BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Ethanol	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m³	General population	Local
	DNEL	Long term Inhalation	950 mg/m³	Workers	Systemic

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# SECTION 8: Exposure controls/personal protection | DNEL | Short term | 1900 mg/ | Workers | Local

•	<del>-</del>	T =		T	Ι
	DNEL	Short term	1900 mg/	Workers	Local
		Inhalation	m³		
Propan-2-ol	DNEL	Long term Oral	26 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	89 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	319 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	500 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	J		'
	DNEL	Long term Dermal	888 mg/kg	Workers	Systemic
	DIVLE	Long tom Borna	bw/day	Workers	Cyclonno
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
Lifty acetate	DIVLL	Long term Oral	bw/day		Systemic
	DNE	Langutawa Dawa al		population	Cyrotomolo
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
	- · · - ·		bw/day	population	
	DNEL	Long term Dermal	63 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	367 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Long term	367 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	734 mg/m³	General	Systemic
		Inhalation		population	-,
	DNEL	Long term	734 mg/m³	Workers	Local
	DIVLE	Inhalation	7 0 1 mg/m	Workers	Local
	DNEL	Long term	734 mg/m³	Workers	Systemic
	DIVLL	Inhalation	7 34 mg/m	VVOIKEIS	Cysternic
	DNEL	Short term	1460 mg/	Workers	Local
	DINEL		1468 mg/	VVOIKEIS	Local
	DAIE	Inhalation	m³	\\/avlsava	Cyatamic
	DNEL	Short term	1468 mg/	Workers	Systemic
O Marthause A social at the first	D	Inhalation	m³	0	1 1
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	33 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	275 mg/m <sup>3</sup>		Systemic
		Inhalation			=
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
			bw/day	population	*
	DNEL	Short term	550 mg/m <sup>3</sup>	Workers	Local
		Inhalation	333g/		
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
	DIVLL	Long term berman	bw/day	VVOIROIS	Cyclonnic
			Dwiday		

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

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

#### **Individual protection measures**

**Hygiene measures** 

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

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#### Eye/face protection

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

#### **Skin protection**

#### **Hand protection**

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

#### **Body protection**

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

#### Other skin protection

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

#### **Respiratory protection**

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

Filter type: A

Filter type (spray application): A P

# **Environmental exposure** controls

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

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

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

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid.

Colour : Colourless.

Odour : Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

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

Flammability : Not available.

Lower and upper explosion : Lower: 1.4%
Upper: 19%

Flash point : Closed cup: >13°C (>55.4°F)

Auto-ignition temperature

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

Ingredient name	°C	°F	Method
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
n-Butyl acetate	415	779	EU A.15

**Decomposition temperature** : Not available.

pH : Not applicable.Viscosity : Not available.

Solubility(ies) :

Not available.

water

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure

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

Relative density : Not available.

Density : 0.9 g/cm³

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

## **SECTION 10: Stability and reactivity**

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

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

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

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

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

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

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity

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## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-

## **Conclusion/Summary**

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

#### **Acute toxicity estimates**

Route	ATE value
Not available.	

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.06666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
				uL	

**Conclusion/Summary** 

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

**Sensitisation** 

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

**Mutagenicity** 

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

**Carcinogenicity** 

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

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## **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

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

of exposure

Potential acute health effects

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

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

dizziness.

**Skin contact** : No known significant effects or critical hazards.

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

#### Symptoms related to the physical, chemical and toxicological characteristics

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

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : No specific data. Ingestion : No specific data.

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

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

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## **SECTION 11: Toxicological information**

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki</i> -	12 weeks
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
'	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days

**Conclusion/Summary** 

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

#### 12.2 Persistence and degradability

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethanol	-0.35	-	Low
Propan-2-ol	0.05	-	Low
Ethyl acetate	0.68	30	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low

#### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

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## **SECTION 12: Ecological information**

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

European waste catalogue (EWC)

: 08.01.11

**Packaging** 

**Methods of disposal** 

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

**Special precautions** 

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

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethanol)	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, ethyl acetate)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

#### **Additional information**

ADR/RID

: Special provisions 640 (C)

Tunnel code (D/E)

**ADN** 

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

Special provisions 640 (C)

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA

 The environmentally hazardous substance mark may appear if required by other transportation regulations.

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## **SECTION 14: Transport information**

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]
TEKNOCOAT 1687-58	≥90	3

Labelling

**Other EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is controlled under the Seveso Directive.

**Danger criteria** 

Category

P<sub>5</sub>c

**National regulations** 

**Austria** 

**VbF** class ΑI

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

**Czech Republic** 

Storage code : 1

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## **SECTION 15: Regulatory information**

**Denmark** 

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

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

**MAL-code** 

: 3-1

**Protection based on MAL** 

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

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

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

MAL-code: 3-1

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

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

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

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

During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

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

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

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

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

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

\*See Regulations.

Low-boiling liquids

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

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## **SECTION 15: Regulatory information**

Restrictions on use : Not to be used by professional users below 18 years of age. See the National

Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable

substances

: Not listed

Finland France

Social Security Code, Articles L 461-1 to L 461-7 : n-Butyl acetate
Ethanol
Propan-2-ol
Ethyl acetate
2-Methoxy-1-methylethyl acetate
RG 84
RG 84
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 5.2.5: 69.3%

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

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

Ingredient name	Carcinogen		Reproductive toxicity - Fertility		Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed

**Water Discharge Policy** 

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

**Norway** 

**Sweden** 

Flammable liquid class

(SRVFS 2005:10)

**Switzerland** 

VOC content : VOC (w/w): 67.3%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

: 1

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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## **SECTION 15: Regulatory information**

#### **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

: ATE = Acute Toxicity Estimate

acronyms

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

1272/20081

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
Eye Irrit. 2, H319	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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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: 1 **Version** 

#### **Notice to reader**

Date of previous issue

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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