## SAFETY DATA SHEET



TEKNONISO COMBI 333-301 - BASE 5

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

1.1 Product identifier

Product name : TEKNONISO COMBI 333-301 - BASE 5

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 : P

responsible for this SDS

: Prod-safe@teknos.com

**National contact** 

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

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : In an emergency, call 112

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

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Flam. Liq. 3, H226 Eye Dam. 1, H318

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

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapour. H318 - Causes serious eye damage.

**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.

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

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

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Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

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: Propan-1-ol

Supplemental label

elements

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

articles

#### 2.3 Other hazards

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

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

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

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Propan-1-ol	REACH #: 01-2119486761-29 EC: 200-746-9 CAS: 71-23-8 Index: 603-003-00-0	≤5	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336	-	[1]
			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.

### <u>Type</u>

[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.

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### **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 eves with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

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

Skin contact

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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

**Protection of first-aiders** 

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

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

#### Over-exposure signs/symptoms

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

> pain watering redness

Inhalation : No specific data.

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

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

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**Specific treatments** : No specific treatment.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

**Unsuitable extinguishing** media

: Do not use water jet.

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

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

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

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

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

### SECTION 6: Accidental release measures

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

For non-emergency personnel

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

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

### 6.2 Environmental precautions

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

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

**Small spill** 

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

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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 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. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Seveso Directive - Reporting thresholds

#### **Danger criteria**

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

### 7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : 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
tetraethyl silicate	Regulation on Limit Values - MAC (Austria, 4/2021).
tetraetry silicate	TWA: 5 ppm 8 hours.
	TWA: 44 mg/m³ 8 hours.
	CEIL: 10 ppm, 8 times per shift, 5 minutes.
Both I work to	CEIL: 88 mg/m³, 8 times per shift, 5 minutes.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Propan-1-ol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours.
tetraethyl silicate	Limit values (Belgium, 5/2021).
letraetry silicate	TWA: 5 ppm 8 hours.
	TWA: 44 mg/m³ 8 hours.
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: 250 fig/fil o flodis. TWA: 50 ppm 8 hours.
Propan-1-ol	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 250 mg/m³ 8 hours.
tetraethyl silicate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 44 mg/m³ 8 hours. Limit value 8 hours: 5 ppm 8 hours.
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/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.
Propan-1-ol	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 15 min: 500 mg/m³ 15 minutes. Limit value 8 hours: 300 mg/m³ 8 hours.
tetraethyl silicate	Ministry of Economy, Labour and Entrepreneurship ELV/
lenaeniyi silicate	STELV (Croatia, 1/2021).
	ELV: 5 ppm 8 hours.
	ELV: 44 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes.
	STELV: 723 mg/m 13 minutes.
	ELV: 241 mg/m³ 8 hours.
	ELV: 50 ppm 8 hours.
Propan-1-ol	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). STELV: 625 mg/m³ 15 minutes.
	STELV: 023 flight 13 fillindes. STELV: 250 ppm 15 minutes.
	ELV: 500 mg/m <sup>3</sup> 8 hours.
	ELV: 200 ppm 8 hours.
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tetraethyl silicate Department of labour inspection (Cyprus, 7/2021).

TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 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.

tetraethyl silicate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022).

TWA: 44 mg/m³ 8 hours.

TWA: 5.06 ppm 8 hours.

STEL: 176 mg/m³ 15 minutes.

STEL: 20.24 ppm 15 minutes.

n-Butyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022).

TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.

Propan-1-ol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Absorbed through skin.

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

tetraethyl silicate Working Environment Authority (Denmark, 6/2022).

TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. STEL: 88 mg/m³ 15 minutes. STEL: 10 ppm 15 minutes.

n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl

acetate, all isomers]
TWA: 50 ppm 8 hours.
TWA: 241 mg/m³ 8 hours.
STEL: 723 mg/m³ 15 minutes.
STEL: 150 ppm 15 minutes.

Propan-1-ol Working Environment Authority (Denmark, 6/2022). Absorbed

through skin.

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

tetraethyl silicate Occupational exposure limits, Regulation No. 293 (Estonia,

12/2022).

TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours.

n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia,

12/2022).

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

Propan-1-ol Occupational exposure limits, Regulation No. 293 (Estonia,

**12/2022). [Propanol]** TWA: 350 mg/m³ 8 hours.

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

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EU OEL (Europe, 1/2022). Notes: list of indicative tetraethyl silicate occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 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. Institute of Occupational Health, Ministry of Social Affairs tetraethyl silicate (Finland, 10/2021). TWA: 5 ppm 8 hours. TWA: 43 mg/m<sup>3</sup> 8 hours. STEL: 10 ppm 15 minutes. STEL: 86 mg/m<sup>3</sup> 15 minutes. Institute of Occupational Health, Ministry of Social Affairs n-Butyl acetate (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/m3 15 minutes. Propan-1-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. STEL: 250 ppm 15 minutes. STEL: 620 mg/m<sup>3</sup> 15 minutes. Ministry of Labor (France, 10/2022). Notes: Indicative tetraethyl silicate regulatory limit values (decree of 30-06-2004 modified) TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. 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. Ministry of Labor (France, 10/2022). Notes: Permissible limit Propan-1-ol values (circulars) TWA: 200 ppm 8 hours. TWA: 500 mg/m<sup>3</sup> 8 hours. DFG MAC-values list (Germany, 7/2022). tetraethyl silicate TWA: 10 ppm 8 hours. PEAK: 10 ppm, 4 times per shift, 15 minutes. TWA: 86 mg/m<sup>3</sup> 8 hours. PEAK: 86 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 12 mg/m<sup>3</sup> 8 hours. TWA: 1.4 ppm 8 hours. PEAK: 12 mg/m<sup>3</sup> 15 minutes. PEAK: 1.4 ppm 15 minutes. 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.

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TWA: 62 ppm 8 hours.

PEAK: 600 mg/m<sup>3</sup> 15 minutes. PEAK: 124 ppm 15 minutes.

Presidential Decree 307/1986: Occupational exposure limit tetraethyl silicate values (Greece, 9/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. Presidential Decree 307/1986: Occupational exposure limit n-Butyl acetate 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/m<sup>3</sup> 15 minutes. Propan-1-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m<sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 625 mg/m<sup>3</sup> 15 minutes. tetraethyl silicate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. 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. tetraethyl silicate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [butyl 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). Propan-1-ol Absorbed through skin. TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. tetraethyl silicate NAOSH (Ireland, 5/2021). Notes: EU derived Occupational **Exposure Limit Values** OELV-8hr: 44 mg/m<sup>3</sup> 8 hours. OELV-8hr: 5 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/m³ 15 minutes. Propan-1-ol NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 100 ppm 8 hours. Legislative Decree No. 819/2008. Title IX. Protection from tetraethyl silicate chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 5 ppm 8 hours. 8 hours: 44 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours.

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TWA: 50 ppm 8 hours.

tetraethyl silicate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. 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/m3 15 minutes. TWA: 50 ppm 8 hours. Propan-1-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 10 mg/m<sup>3</sup> 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). tetraethyl silicate TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. 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. Propan-1-ol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [propanol, all isomers] 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. Grand-Duchy Regulation 2016. Chemical agents. Annex I tetraethyl silicate (Luxembourg, 3/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. tetraethyl silicate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. tetraethyl silicate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 44 mg/m<sup>3</sup> 8 hours. OEL, 8-h TWA: 5 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (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. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative tetraethyl silicate limit value TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022).

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value Date of issue/Date of revision

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

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

Propan-1-ol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

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

tetraethyl silicate

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: 44 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). Absorbed through skin.

TWA: 200 mg/m<sup>3</sup> 8 hours. STEL: 600 mg/m3 15 minutes.

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

TWA: 10 ppm 8 hours.

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

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

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

TWA: 100 ppm 8 hours.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

VLA: 44 mg/m<sup>3</sup> 8 hours. VLA: 5 ppm 8 hours.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

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

Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

VLA: 200 ma/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.

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

TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours.

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.

n-Butyl acetate

Propan-1-ol

tetraethyl silicate

n-Butyl acetate

Propan-1-ol

tetraethyl silicate

n-Butyl acetate

Propan-1-ol

tetraethyl silicate

n-Butyl acetate

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tetraethyl silicate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. KTV: 44 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 5 ppm, 4 times per shift, 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/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. tetraethyl silicate National institute of occupational safety and health (Spain, 4/2022). TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. 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, Propan-1-ol 4/2022). Absorbed through skin. 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. tetraethyl silicate Work environment authority Regulation 2018:1 (Sweden, 9/2021). STEL: 86 mg/m<sup>3</sup> 15 minutes. STEL: 10 ppm 15 minutes. TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. 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/m<sup>3</sup> 15 minutes. Propan-1-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. tetraethyl silicate SUVA (Switzerland, 1/2023). TWA: 5 ppm 8 hours. TWA: 44 mg/m<sup>3</sup> 8 hours. 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/m3 15 minutes. Propan-1-ol SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 200 ppm 8 hours.

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

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tetraethyl silicate EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 44 mg/m<sup>3</sup> 8 hours. TWA: 5 ppm 8 hours. 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. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Propan-1-ol through skin. STEL: 625 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 500 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 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). 1,2,4-trimethylbenzene [trimethylbenzenes, all isomers or mixtures] TWA: 25 ppm 8 hours. TWA: 125 mg/m<sup>3</sup> 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
·	

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No exposure indices known.

## 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
tetraethyl silicate	DNEL	Short term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	14 mg/m³	General population	Local
	DNEL	Long term Inhalation	14 mg/m³	General population	Local
	DNEL	Short term Inhalation	14 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m³	General population	Systemic
	DNEL	Short term Dermal	56 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	56 mg/kg bw/day	Workers	Systemic
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
DNEL	Long term Oral	61 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	80 mg/m³	General population	Systemic
DNEL	Long term Dermal	81 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	136 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	268 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	1036 mg/ m³	General population	Systemic
DNEL	Short term Inhalation	1723 mg/ m³	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL	Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term	Inhalation DNEL Long term Oral 61 mg/kg bw/day DNEL Long term Dermal 81 mg/kg bw/day DNEL Long term Dermal 81 mg/kg bw/day DNEL Long term Dermal 136 mg/kg bw/day DNEL Long term 268 mg/m³ Inhalation DNEL Short term 1036 mg/ Inhalation m³ DNEL Short term 1723 mg/	Inhalation DNEL Long term Oral  DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term DNEL Long term DNEL Long term DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term

#### **PNECs**

No PNECs available

### 8.2 Exposure controls

## Appropriate engineering controls

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

### **Individual protection measures**

### **Hygiene measures**

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

#### **Eye/face protection**

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

## Skin protection Hand protection

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

Recommendations: Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

### **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.

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**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 Initial boiling point and

boiling range

: Not available.

Ingredient name	°C	°F	Method
Propan-1-ol	97	206.6	
n-Butyl acetate	126	258.8	OECD 103

Flash point : Closed cup: 25°C (77°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
Propan-1-ol	400	752	DIN 51794
n-Butyl acetate	415	779	EU A.15

Decomposition temperature : Not available.pH : Not applicable.Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

Vapour Pressure at 20°C Vapour pressure at 50°C Ingredient name mm Hq **kPa** Method mm Hg **kPa** Method Propan-1-ol 21.15146 2.8 n-Butyl acetate 11.25096 1.5 DIN EN 13016-2

Relative density : Not available.

Density : 1.5 g/cm³

Vapour density : Not available.

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

**Explosive properties Oxidising properties** 

Not available.Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

: The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

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

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
tetraethyl silicate	LD50 Oral	Rat	6270 mg/kg	-
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	-
Propan-1-ol	LD50 Dermal	Rabbit	5040 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-

**Conclusion/Summary** 

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

### **Acute toxicity estimates**

Route	ATE value
Inhalation (vapours)	78.2 mg/l

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetraethyl silicate	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Severe irritant	Guinea pig	-	2 hours 2500	-
				ppm	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Mild irritant	Human	-	47 hours 100	-
				%	
	Skin - Mild irritant	Human	-	24 hours 100	-
				%	
				l	

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### SECTION 11: Toxicological information

Skin - Mild irritant Rabbit 500 mg

**Conclusion/Summary** 

**Sensitisation** 

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

**Conclusion/Summary** 

**Mutagenicity** 

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

**Conclusion/Summary** 

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

**Carcinogenicity** 

**Conclusion/Summary** 

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

Reproductive toxicity

**Conclusion/Summary** 

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
tetraethyl silicate	Category 3	-	Respiratory tract irritation
n-Butyl acetate Propan-1-ol	Category 3 Category 3	-	Narcotic effects 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.

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

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

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

> pain watering redness

Inhalation : No specific data.

Skin contact Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

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### **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

: Not available.

**Potential delayed effects** Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

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

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
-Butyl acetate	Acute LC50 32 mg/l Marine water Acute LC50 18000 µg/l Fresh water	Crustaceans - Artemia salina Fish - Pimephales promelas	48 hours 96 hours
Propan-1-ol		Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex	96 hours 48 hours 48 hours
	Acute LC50 3800000 µg/l Marine water		96 hours

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

### 12.2 Persistence and degradability

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetraethyl silicate	3.18	-	Low
n-Butyl acetate	2.3	-	Low
Propan-1-ol	0.2	-	Low

### **12.4 Mobility in soil**

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

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

**European waste** catalogue (EWC) : 080111

### **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	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	₩o.	No.	No.

### **Additional information**

ADR/RID

: Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (D/E)

**ADN** 

: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**IMDG** 

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

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.

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14.7 Maritime transport in bulk according to IMO instruments

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

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### **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]
TEKNONISO COMBI 333-301	≥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

P5c

### **National regulations**

**Austria** 

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

**Czech Republic** 

Storage code : II

**Denmark** 

**Product registration** 

**4**549536

number

Danish fire class : II-1 MAL-code : 00-2

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### SECTION 15: Regulatory information

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, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-2

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

- Arm protectors 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 half mask, eye protection, 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.

#### 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 **RG 84 RG 84** Propan-1-ol

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

1 Hazard class for water

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### **SECTION 15: Regulatory information**

Technical instruction on air quality control

: TA-Luft Class I - Number 5.2.5: 14.1%

TA-Luft Number 5.2.5: 11.5%

TA-Luft Class II - Number 5.2.7.1.1: 0.4%

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.

**Netherlands** 

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

Ingredient name	Carcinogen	•	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Naphtha (petroleum), hydrodesulfurized heavy	Listed	Listed	-	-	-
Naphtha (petroleum), hydrotreated heavy	Listed	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)

<u>Switzerland</u>

VOC content : VOC (w/w): 11.9%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

: 2a

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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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

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### **SECTION 16: Other information**

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Eye Dam. 1, H318	Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

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

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: 26/06/2024

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#### **Notice to reader**

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

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