SAFETY DATA SHEET



TEKNONISO COMBI 333-301 - BASE 3

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

1.1 Product identifier

Product name : TEKNONISO COMBI 333-301 - BASE 3

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person

responsible for this SDS

: Prod-safe@teknos.com

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

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

Flam. Liq. 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

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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.

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

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

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

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

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

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

sulfur oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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

	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

Product/ingredient name	Exposure limit values
tetraethyl silicate	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. CEIL: 10 ppm, 8 times per shift, 5 minutes. 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.

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CEIL: 100 ppm 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Regulation on Limit Values - MAC (Austria, 4/2021). Propan-1-ol

> TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours.

Limit values (Belgium, 5/2021). tetraethyl silicate

> TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

Limit values (Belgium, 5/2021). [butyl acetate, all isomers] n-Butyl acetate

STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. 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.

Ministry of Labour and Social Policy and the Ministry of tetraethyl silicate

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.

Ministry of Labour and Social Policy and the Ministry of n-Butyl acetate

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.

Ministry of Labour and Social Policy and the Ministry of Propan-1-ol

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.

Ministry of Economy, Labour and Entrepreneurship ELV/ tetraethyl silicate

> STELV (Croatia, 1/2021). ELV: 5 ppm 8 hours.

ELV: 44 mg/m³ 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.

Propan-1-ol Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

STELV: 625 mg/m³ 15 minutes. STELV: 250 ppm 15 minutes. ELV: 500 mg/m³ 8 hours. ELV: 200 ppm 8 hours.

Department of labour inspection (Cyprus, 7/2021). tetraethyl silicate

> TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

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

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

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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. Working Environment Authority (Denmark, 6/2022). [Butyl n-Butyl acetate 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. Occupational exposure limits, Regulation No. 293 (Estonia, tetraethyl silicate 12/2022). TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. 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/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. tetraethyl silicate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 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/m³ 8 hours. TWA: 50 ppm 8 hours. tetraethyl silicate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 5 ppm 8 hours. TWA: 43 mg/m³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 86 mg/m³ 15 minutes.

n-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).

TWA: 150 ppm 8 hours. TWA: 720 mg/m³ 8 hours.

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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/m³ 8 hours. STEL: 250 ppm 15 minutes.

STEL: 250 ppm 15 minutes.

STEL: 620 mg/m³ 15 minutes.

tetraethyl silicate

Ministry of Labor (France, 10/2022). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)

TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

n-Butyl acetate Ministry of Labor (France, 10/2022). Notes: Binding regulatory

limit values (article R. 4412-149 of the Labor Code)

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

Propan-1-ol Ministry of Labor (France, 10/2022). Notes: Permissible limit

values (circulars) TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours.

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

TWA: 10 ppm 8 hours.

PEAK: 10 ppm, 4 times per shift, 15 minutes.

TWA: 86 mg/m³ 8 hours.

PEAK: 86 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022).

TWA: 12 mg/m³ 8 hours. TWA: 1.4 ppm 8 hours. PEAK: 12 mg/m³ 15 minutes. PEAK: 1.4 ppm 15 minutes.

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

TWA: 100 ppm 8 hours.

PEAK: 200 ppm, 4 times per shift, 15 minutes.

TWA: 480 mg/m³ 8 hours.

PEAK: 960 mg/m³, 4 times per shift, 15 minutes.

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TRGS 900 OEL (Germany, 6/2022).

TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes.

tetraethyl silicate Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 9/2021).

TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

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

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

Propan-1-ol Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 9/2021).

TWA: 200 ppm 8 hours.

TWA: 500 mg/m³ 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 625 mg/m³ 15 minutes.

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5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. tetraethyl silicate Inhalation sensitiser. TWA: 44 mg/m³ 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/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). tetraethyl silicate TWA: 44 mg/m³ 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/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m3 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/m³ 8 hours. TWA: 200 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational tetraethyl silicate **Exposure Limit Values** OELV-8hr: 44 mg/m³ 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/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Propan-1-ol 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/m³ 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/m³ 8 hours. TWA: 50 ppm 8 hours. tetraethyl silicate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). n-Butyl acetate TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Propan-1-ol TWA: 10 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). tetraethyl silicate TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butyl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m3 15 minutes.

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STEL: 150 ppm 15 minutes.
Propan-1-ol Lithuanian Hygiene Standar

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

[propanol, all isomers] TWA: 350 mg/m³ 8 hours.

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

tetraethyl silicate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

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/m³ 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/m³ 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/m³ 15 minutes. TWA: 241 mg/m³ 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/m³ 8 hours. OEL, 8-h TWA: 5 ppm 8 hours.

n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022).

OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.

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

limit value

TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours.

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

STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

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

limit value

TWA: 241 mg/m³ 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/m³ 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

concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

TWA: 44 mg/m³ 8 hours.

n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy

of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

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2/2021).

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TWA: 240 mg/m³ 8 hours.
STEL: 720 mg/m³ 15 minutes.

Propan-1-ol

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

TWA: 200 mg/m³ 8 hours. STEL: 600 mg/m³ 15 minutes.

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

TWA: 10 ppm 8 hours.

n-Butyl acetate Portuguese Institute of Quality (Portugal, 11/2014).

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

Propan-1-ol Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 100 ppm 8 hours.

tetraethyl silicate HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). VLA: 44 mg/m³ 8 hours.

VLA: 5 ppm 8 hours.
n-Butyl acetate

HG 1218/2006, Annex

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

VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

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

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

VLA: 200 mg/m³ 8 hours. VLA: 81 ppm 8 hours.

Short term: 500 mg/m³ 15 minutes. Short term: 203 ppm 15 minutes.

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

TWA: 44 mg/m³ 8 hours. TWA: 5 ppm 8 hours.

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.

tetraethyl silicate

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

TWA: 44 mg/m³ 8 hours. TWA: 5 ppm 8 hours.

KTV: 44 mg/m³, 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/m³ 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/m³ 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/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.

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National institute of occupational safety and health (Spain, Propan-1-ol 4/2022). Absorbed through skin.

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

Work environment authority Regulation 2018:1 (Sweden, tetraethyl silicate

9/2021).

STEL: 86 mg/m³ 15 minutes. STEL: 10 ppm 15 minutes. TWA: 44 mg/m³ 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/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes.

Work environment authority Regulation 2018:1 (Sweden, Propan-1-ol

9/2021).

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

SUVA (Switzerland, 1/2023). tetraethyl silicate

> TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours.

TWA: 240 mg/m³ 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/m³ 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). tetraethyl silicate

> TWA: 44 mg/m³ 8 hours. TWA: 5 ppm 8 hours.

n-Butyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020).

> STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.

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/m³ 8 hours. TWA: 200 ppm 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 2-Methoxy-1-methylethyl acetate

through skin.

STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

1,2,4-trimethylbenzene EH40/2005 WELs (United Kingdom (UK), 1/2020).

[trimethylbenzenes, all isomers or mixtures]

TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.

Biological exposure indices

n-Butyl acetate

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Product/ingredient name	Exposure indices
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.

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DNELs/DMELs

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Product/ingredient name	Type	Exposure	Value	Population	Effects
tetraethyl silicate	DNEL	Short term Dermal	3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	14 mg/m³	General	Local
	5.151	Inhalation		population	
	DNEL	Long term	14 mg/m³	General	Local
	5.151	Inhalation		population	
	DNEL	Short term	14 mg/m³	General	Systemic
	DNE	Inhalation	4.4 / 3	population	0
	DNEL	Long term Inhalation	14 mg/m³	General	Systemic
	DNEI		E6 malka	population	Systemia
	DNEL	Short term Dermal	56 mg/kg	Workers	Systemic
	DNEL	Long torm Dormal	bw/day	Workers	Systemia
	DINEL	Long term Dermal	56 mg/kg	Workers	Systemic
n Butyl acetate	DNEL	Short term Oral	bw/day 2 mg/kg	General	Systemic
n-Butyl acetate	DIVEL	CHOIL CHIII CIAI	bw/day	population	Cystellic
	DNEL	Long term Oral	2 mg/kg	General	Systemic
	DIVLL	Long term oral	bw/day	population	Cysternic
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
	J. 122	2.101. tolli Dollilai	bw/day	population	- , 5:5/////
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
		Sim Boillian	bw/day		- , - , - , - , - , - , - , - , - , - ,
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation]	population	
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	300 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m ³	Workers	Systemic
	5	Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
	DAIE:	l am m As and D	bw/day	population	0
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
	ראובי	Long torm	bw/day	General	Systemia
	DNEL	Long term Inhalation	12 mg/m³		Systemic
	DNEL	Long term	48 mg/m³	population Workers	Systemic
	DIVEL	Inhalation	40 mg/m	AAOIVEI2	Systemic
Propan-1-ol	DNEL	Long term Oral	61 mg/kg	General	Systemic
11 τοραίτ- 1-οι 	DIVLL	Long term Oral	bw/day	population	Сузіснію
	DNEL	Long term	80 mg/m ³	General	Systemic
	D14LL	Inhalation	55 mg/m	population	2,0.0.1110
	DNEL	Long term Dermal	81 mg/kg	General	Systemic
		20111101	bw/day	population	,
	DNEL	Long term Dermal	136 mg/kg	Workers	Systemic
			bw/day		-
		1 -	268 mg/m ³	Workers	Systemic
	DNEL	Long term	200 mg/m	VVOINCIS	
	DNEL	Long term Inhalation	200 mg/m	WOIKCIS	
	DNEL	Inhalation Short term	1036 mg/	General	Systemic
	DNEL	Inhalation Short term Inhalation	1036 mg/ m³	General population	Systemic
		Inhalation Short term	1036 mg/	General	-

PNECs

No PNECs available

8.2 Exposure controls

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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.

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.

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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.

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SECTION 9: Physical and chemical properties

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

Flammability : Not available.

Lower and upper explosion : Lower: 1.4%
Upper: 7.6%

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 available.Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

	Va	Vapour Pressure at 20°C		Va	ssure at 50°C	
Ingredient name	mm Hg	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.

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

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

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SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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)	64.57 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	-
				%	
	Skin - Mild irritant	Rabbit	-	500 mg	-

Conclusion/Summary

Sensitisation

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

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
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 : Not available.

of exposure

Potential acute health effects

Eye contact Causes serious eye damage.

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

Adverse symptoms may include the following: Ingestion

stomach pains

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	J 3	Crustaceans - Artemia salina Fish - Pimephales promelas	48 hours 96 hours
Propan-1-ol	Acute EC50 4480000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex	96 hours 48 hours 48 hours 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

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.

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) : 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.

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SECTION 13: Disposal considerations

Special precautions

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	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.	No.	No.	No.

Additional information

ADR/RID

: <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.

Tunnel code (D/E)

ADN

: 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.

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.

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]
TEKNONISO COMBI 333-301	≥90	3

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SECTION 15: Regulatory information

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

<u>Austria</u>

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

Czech Republic
Storage code : II

Denmark

Product registration

number

4549472

: Permitted.

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

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.

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SECTION 15: Regulatory information

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

Reinforced medical surveillance

: n-Butyl acetate **RG 84** Propan-1-ol **RG 84**

: 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

Cate	gory	Reference number
P5c		1.2.5.3

Hazard class for water

Technical instruction on air quality control

: TA-Luft Class I - Number 5.2.5: 17%

TA-Luft Number 5.2.5: 11%

TA-Luft Class II - Number 5.2.7.1.1: 0.4%

<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

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SECTION 15: Regulatory information

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Naphtha (petroleum), hydrodesulfurized heavv	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 : 2a

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 11.4%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

1272/20081

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

Full text of abbreviated H statements

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SECTION 16: Other information

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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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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