Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - United Kingdom: Northern Ireland

# **SAFETY DATA SHEET**



TEKNONISO COMBI 333-300 - RAL 7016

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

1.1 Pro	duct id	entifier
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Product name : TEKNONISO COMBI 333-300 - RAL 7016

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Paint.

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

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

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

### responsible for this SDS

National contact

Teknos Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

#### **1.4 Emergency telephone number**

National advisory body/Poison Centre

Telephone number : NHS: 111

### **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 ig sources. No smoking.	nition
Response	P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for seminutes. 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, region national and international regulations.	⊧al,

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## SECTION 2: Hazards identification

Hazardous ingredients	1	Contains: Propan-1-ol
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

1907/2006, Annex XIII Other hazards which do : None known. not result in classification

to Regulation (EC) No.

## **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/ I	[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]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation)	-	[1] [*]
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] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	<1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
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Ethylbenzene	REACH #:	≤0.3	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	(vapours)] = 11 mg/	
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤0.3	Flam. Liq. 3, H226	-	[2]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	ATE [Inhalation (vapours)] = 18 mg/ I	[1] [2]
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C $\geq$ 25% Skin Irrit. 2, H315: 5% $\leq$ C $<$ 25% Eye Dam. 1, H318: C $\geq$ 25% Eye Irrit. 2, H319: 5% $\leq$ C $<$ 25% Skin Sens. 1, H317: C $\geq$ 0.2% STOT SE 3, H335: C $\geq$ 5%	[1] [2]
			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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

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

## SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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.

## SECTION 5: Firefighting measures

SECTION 5. Filengi	
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	m the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazar In a fire or if heated, a pressure increase will occur and the container may burst, w 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 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	co	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### **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
F	25c	5000 tonne	50000 tonne

#### 7.3 Specific end use(s)

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

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name		Exposure limit values				
tetraethyl silicate			United Kingdom (UK),	1/2020).		
		TWA: 44 mg/m <sup>3</sup> 8				
		TWA: 5 ppm 8 ho	urs.			
n-Butyl acetate		EH40/2005 WELs	(United Kingdom (UK),	1/2020).		
		STEL: 966 mg/m <sup>3</sup> 15 minutes.				
		STEL: 200 ppm 1	5 minutes.			
		TWA: 724 mg/m <sup>3</sup>	8 hours.			
		TWA: 150 ppm 8	hours.			
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Propan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 625 mg/m <sup>3</sup> 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 500 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
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.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
•	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
P-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.
,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 25 ppm 8 hours.
	TWA: 25 ppm o hours. TWA: 125 mg/m <sup>3</sup> 8 hours.
/lethyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
meany meanaorylate	STEL: 416 mg/m <sup>3</sup> 15 minutes.
	STEL: 416 mg/m <sup>2</sup> 15 minutes.
	TWA: 208 mg/m <sup>3</sup> 8 hours.
ormaldabyda	TWA: 50 ppm 8 hours.
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
	TWA: 2.5 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
Xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
procedures Euro asse valu atmo of ex (Wo for t	erence should be made to monitoring standards, such as the following: opean Standard EN 689 (Workplace atmospheres - Guidance for the essment of exposure by inhalation to chemical agents for comparison with limit es and measurement strategy) European Standard EN 14042 (Workplace ospheres - Guide for the application and use of procedures for the assessment (posure to chemical and biological agents) European Standard EN 482 rkplace atmospheres - General requirements for the performance of procedure ne measurement of chemical agents) Reference to national guidance uments for methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

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required.

Туре	Exposure	Value	Population	Effects
	Short term Dermal	3 ma/ka	General	Systemic
				- ,
DNFI	Long term Dermal			Systemic
	20119 10111 2 0111101			- ) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
DNFI	Short term			Local
DITE		· · · · · · · · · · · · · · · · · · ·	-	2000
DNEI		14 ma/m <sup>3</sup>		Local
DITLE		r r mg/m		Loodi
DNEI		14 ma/m <sup>3</sup>		Systemic
DITE		· · · · · · · · · · · · · · · · · · ·		eyetenne
DNEI		14 ma/m <sup>3</sup>		Systemic
DITLE		r r mg/m		Cyclonnic
		56 ma/ka		Systemic
DIVLL	onort term Derma		WOINCIS	Oysternie
	Long term Dermal		Workers	Systemic
DINCL	Long term Derma		VVOIKEIS	Oysternic
	Short term Oral		General	Systemic
DIVLL	onort term oral			Oysternie
	Long term Oral			Systemic
DIVLL	Long term ora			Oysternie
	Short term Dermal			Systemic
DIVLL	onort term Derma			Oysternie
	Short term Dermal			Systemic
DINCL	Short term Derma		VVOIKEIS	Oysternic
	Long term		General	Local
DIVLL		00.7 mg/m		Local
		$300 \text{ mg/m}^3$		Local
DINCL		500 mg/m		LUCAI
		$300 \text{ mg/m}^3$		Systemic
DIVLL		ooo mg/m		Oysternie
		$300 \text{ mg/m}^3$		Local
DIVLL		ooo mg/m	Wonters	Loodi
		$600 \text{ mg/m}^3$	Workers	Local
DIVLL		ooo mg/m	WOINCIS	Local
		$600 \text{ mg/m}^3$	Workers	Systemic
DIVLL		ooo mg/m	Wonters	Cysternio
		3.4 ma/ka	General	Systemic
DIVLL	Long tonn Denna			Cysternio
	Long term Dermal			Systemic
DIVLL	Long term Derma		WOINCIS	Oysternie
DNEI	Long term		General	Systemic
DITLE		12 mg/m		Cyclonic
DNEI		48 mg/m <sup>3</sup>		Systemic
DNFI		61 ma/ka	General	Systemic
DITLE	Long tonn oran			Cyclonic
DNEI	Long term			Systemic
DIVLL		oo mg/m		Cysternio
DNFI		81 ma/ka		Systemic
	Long term Dermal			Systemic
DNFI	Long term		Workers	Systemic
		200 mg/m		Cystonio
		1036 ma/	General	Systemic
DINEL				Cysternic
				Systemic
DIVEL	Inhalation	m <sup>3</sup>	VVUINCIS	Systemic
	Type           DNEL           DNEL	DNELShort term DermalDNELLong term DermalDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term DermalDNELCong term DermalDNELShort term OralDNELShort term OralDNELShort term DermalDNELShort term OralDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term DermalDNELLong term DermalDNEL <td>DNELShort term Dermal3 mg/kg bw/dayDNELLong term Dermal3 mg/kg bw/dayDNELShort term14 mg/m³Inhalation14 mg/m³DNELLong term14 mg/m³Inhalation14 mg/m³DNELShort term14 mg/m³Inhalation14 mg/m³DNELShort term14 mg/m³Inhalation14 mg/m³DNELLong term14 mg/m³Inhalation14 mg/m³DNELLong term Dermal56 mg/kgbw/dayDNELShort term Oral2 mg/kgDNELLong term Oral2 mg/kgbw/dayDNELShort term Dermal6 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#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

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## SECTION 8: Exposure controls/personal protection

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 measu		
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 per Appropriate techniques should be used to remove potentially contaminated clow Wash contaminated clothing before reusing. Ensure that eyewash stations an safety showers are close to the workstation location.	thing.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a sessment indicates this is necessary to avoid exposure to liquid splashes, m gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splast goggles and/or face shield. If inhalation hazards exist, a full-face respirator ma required instead.	nists, sh
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard st be worn at all times when handling chemical products if a risk assessment indi- this is necessary. Considering the parameters specified by the glove manufac- check during use that the gloves are still retaining their protective properties. I 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 several substances, the protection time of the gloves cannot be accurately estimated.	icates turer, t
	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 tabeing 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 electric wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refe European Standard EN 1149 for further information on material and design requirements and test methods.	t city,
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 approved by a specialist before handling this product.	be
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importance of use.	
	Filter type: A	
En de la contra de la compañía	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 proceeding 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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Grey.
Odour	: Slight
Odour threshold	: Not available.

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

Melting point/freezing point: Not available.Initial boiling point and:boiling range

Ingredient name		°C	°F	Method
Propan-1-ol		97	206.6	
n-Butyl acetate		126	258.8	OECD 103
Flammability	: Not a	available.	·	
Lower and upper explosion imit		er: 1.4% er: 7.6%		
Flash point	: Close	ed cup: 25°C (7	7°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 a	available.		
pH	: Not a	applicable.		
Viscosity	: Not a	available.		
Solubility(ies) Not available.	:			
Solubility in water	: Not a	available.		
Partition coefficient: n-octanol water	: Not a	applicable.		
Vapour pressure	:			
	Va	oour Pressure	at 20°C	Vapour pressure at 50°C

	Va	Vapour Pressure at 20°C		Vapour pressure at 50°C		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			
Polativo donsity	• Not	available		•	•	÷

Relative density	Not available.
Density	: 1.5 g/cm <sup>3</sup>
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
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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	-

#### Acute toxicity estimates

Route	ATE value
Inhalation (vapours)	71.72 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	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
Dreper 1 el		Dabbit		ug l	
Propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Skin - Mild irritant	Human		mg 47 hours 100	
	Skill - Milu Intant	numan	-	%	-
	Skin - Mild irritant	Human	_	24 hours 100	-
			-	%	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Based on available data, t	he classification of	l ritoria are		Į

o on o no no no na	
Sensitisation	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Mutagenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Carcinogenicity	

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxicit	<u>y (single exposure)</u>

Product/ing	redient name	Category	Route of exposure	Target organs
tetraethyl silicate		Category 3	-	Respiratory tract
n-Butyl acetate Propan-1-ol		Category 3 Category 3	-  -	Narcotic effects
<u>Specific target organ toxici</u>	<u>ty (repeated exposure)</u>			
Not available.				
Aspiration hazard Not available.				
nformation on likely routes f exposure	: Not available.			
otential acute health effects				
Eye contact	<ul> <li>Causes serious eye</li> </ul>	damage.		
Inhalation	•	t effects or critical hazard	ds.	
Skin contact	•	t effects or critical hazard		
Ingestion	•	t effects or critical hazard		
ymptoms related to the phy	vsical, chemical and to	xicological characterist	tics	
Eye contact	: Adverse symptoms pain watering redness	may include the following	g:	
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms pain or irritation redness blistering may occur	may include the following	g:	
Ingestion	: Adverse symptoms stomach pains	may include the following	<b>]</b> :	
elayed and immediate effect	cts as well as chronic e	ffects from short and l	ong-term exposi	ıre
Short term exposure	<b>.</b>			
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health eff	<u>ects</u>			
Not available.				
Conclusion/Summary	: Not available.			
General	: No known significan	t effects or critical hazar	ds.	
Carcinogenicity	-	t effects or critical hazar		
Mutagenicity	U U	t effects or critical hazar		
Reproductive toxicity	: No known significan			

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

### **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	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia</i> <i>dubia</i> - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Propan-1-ol	Acute EC50 4480000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i>	48 hours
	Acute LC50 3800000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
Conclusion/Summary	: Based on available data, the classification	ation criteria are not met.	•

Conclusion/Summary

#### 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.

### **SECTION 13: Disposal considerations**

13.1 Waste treatment method	ls
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.

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### **SECTION 13: Disposal considerations**

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	ΙΑΤΑ
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	111	111		
14.5 Environmental hazards	No.	Yes.	No.	No.

#### **Additional information**

ADR/RID ADN : Tunnel code (D/E)

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

- **14.6 Special precautions for user**: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- **14.7 Maritime transport in** : Not relevant/applicable due to nature of the product. **bulk according to IMO**

instruments

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

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

#### Annex XIV - List of substances subject to authorisation

#### <u>Annex XIV</u>

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

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Product/ingredient name	%	Designation [Usage]	
TEKNONISO COMBI 333-300	≥90	3	
Labelling :			
<u> Other EU regulations</u>			
Industrial emissions : N (integrated pollution prevention and control) - Air	Not listed		
Industrial emissions : N (integrated pollution prevention and control) - Water	Not listed		
Explosive precursors : N	Not applicable.		
Ozone depleting substances (1 Not listed.	<u>1005/2009/EU)</u>		
Prior Informed Consent (PIC) ( Not listed.	<u>649/2012/EU)</u>		
Persistent Organic Pollutants Not listed.			
<u>Seveso Directive</u>			
This product is controlled under t	he Seveso Directive.		
<u>Danger criteria</u>			

P5c

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
,	UK Occupational Exposure Limits EH40 - WEL	formaldehyde; methanal	Carc.	-

#### **International regulations**

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> 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.

	nde endiged nem previouely issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

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.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
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
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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### **SECTION 16: Other information**

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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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