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

SAFETY DATA SHEET



TEKNODUR COMBI 3440-05 - All variants

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

1.1 Product identifier

Product name

: TEKNODUR COMBI 3440-05 - All variants

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 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 : National Poisons Information Centre: 01 809 2566

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 Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 2, H411

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.

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

2.2 Label elements

Hazard pictograms

Signal word	Irning	
Hazard statements	26 - Flammable liquid and vapour. 19 - Causes serious eye irritation. 36 - May cause drowsiness or dizziness. 11 - Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	80 - Wear eye or face protection. 10 - Keep away from heat, hot surfaces, sparks, open flames and oth irces. No smoking. 73 - Avoid release to the environment.	ner ignition
Response	91 - Collect spillage.	
Storage	03 + P233 - Store in a well-ventilated place. Keep container tightly clo	osed.

SECTION 2: Hazards identification

	-	
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate and 2-Methoxy-1-methylethyl acetate
Supplemental label elements	:	Contains Maleic anhydride. May produce an allergic reaction. 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 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	:	None known.

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Phosphoric acid, polymer with 4,4'- (1-methylethylidene)bis [phenol] and 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxir ane]	-	<3	Flam. Liq. 3, H226 Eye Dam. 1, H318	-	[1]
Isobutyl acetate	REACH #: 01-2119488971-22 EC: 203-745-1 CAS: 110-19-0	≤3	Flam. Liq. 2, H225 STOT SE 3, H336 EUH066	-	[1] [2]
Date of issue/Date of revision	:06/10/2023 Dat	e of previous is	sue : 11/10/2022	Version : 1.0	01 2/19
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	Index: 607-026-00-7				
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Methylisobutylketone	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤0.3	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	<0.001	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]

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

[*] 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 measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 : 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 substance or mixture the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. **Hazardous combustion** Decomposition products may include the following materials: 5 carbon dioxide products carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

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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, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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 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.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures :	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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.
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SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations

: Not available. : Not available.

Industrial sector specific 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
┏-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 275 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 550 mg/m ³ 15 minutes.
Isobutyl acetate	NAOSH (Ireland, 5/2021). [isobutyl acetate] Notes: EU derived
	Occupational Exposure Limit Values
	OELV-15min: 723 mg/m ³ 15 minutes.
	OELV-15min: 150 ppm 15 minutes.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-8hr: 50 ppm 8 hours.
2-Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 98 mg/m ³ 8 hours.
	OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 246 mg/m ³ 15 minutes.
Methylisobutylketone	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
-	derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
te of issue/Date of revision : 06/10/202	3 Date of previous issue : 11/10/2022 Version : 1.01 6/19
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SECTION 8: Exposure controls/personal protection

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	OELV-8hr: 83 mg/m ³ 8 hours.
	OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 208 mg/m ³ 15 minutes.
Maleic anhydride	NAOSH (Ireland, 5/2021). Sensitization potential. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and
	Vapour note is used when a material exerts sufficient vapour
	pressure such that it may be present in both particle and vapour
	phases.

Biological exposure indices

Product/ingredient name	Exposure indices				
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.				
Methylisobutylketone	NAOSH (Ireland, 1/2011) BMGV: 1 mg/l, MIBK [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.				
Recommended monitoring : Reference should be made to monitoring standards, such as the following:					

procedures

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
-			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
		U U	bw/day	population	, , , , , , , , , , , , , , , , , , ,
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	, , , , , , , , , , , , , , , , , , ,
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation	Ū	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/m³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	48 mg/m ³	Workers	Systemic
		Inhalation	0		
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
, , ,		Inhalation	Ŭ	population	
	DNEL	Long term	33 mg/m³	General	Systemic

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		Inhalation		population	
	DNEL	Long term Oral	36 mg/kg	General	Systemic
	DNEL	Long term	bw/day 275 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	320 mg/kg	General	Systemic
	DNEL	Short term	bw/day 550 mg/m³	population Workers	Local
	DNEL	Inhalation Long term Dermal	796 mg/kg	Workers	Systemic
Trizinc bis(orthophosphate)	DNEL	Long term Oral	bw/day 0.83 mg/	General	Systemic
	DNEL	Long term	kg bw/day 2.5 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	5 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	83 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 83 mg/kg	population Workers	Systemic
	DNEL	Short term Oral	bw/day	General	
sobutyl acetate			5 mg/kg bw/day	population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Long term Inhalation	35.7 mg/m³	General	Systemic
	DNEL	Short term Inhalation	300 mg/m ³	General	Local
	DNEL	Short term	300 mg/m ³	General	Systemic
	DNEL	Inhalation Long term	300 mg/m ³	population Workers	Local
	DNEL	Inhalation Long term	300 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	600 mg/m³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m³	Workers	Systemic
2-Butoxyethanol	DNEL	Inhalation Long term Oral	6.3 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day 26.7 mg/	population General	Systemic
	DNEL	Long term	kg bw/day 59 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	98 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	147 mg/m³	General	Local
	DNEL	Inhalation Short term	246 mg/m ³	population Workers	Local
	DNEL	Inhalation Short term	426 mg/m ³	General	Systemic
	DNEL	Inhalation Short term	1091 mg/	population Workers	Systemic
		Inhalation	m ³		

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Methylisobutylketone	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
		Ū	kg bw/day		,
	DNEL	Long term	14.7 mg/m ³	General	Local
		Inhalation	0	population	
	DNEL	Long term	14.7 mg/m ³	General	Systemic
		Inhalation	0	population	,
	DNEL	Long term	83 mg/m³	Workers	Local
		Inhalation	5		
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation	j,		-,
	DNEL	Short term	155.2 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Short term	 155.2 mg/	General	Systemic
		Inhalation	m ³	population	
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation			
ropylidynetrimethanol	DNEL	Long term Oral	0.34 mg/	General	Systemic
			kg bw/day	population	- ,
	DNEL	Long term Dermal	0.34 mg/	General	Systemic
	DIVLE	Long tonn Donna	kg bw/day	population	Gysternio
	DNEL	Long term	0.58 mg/m ³	General	Systemic
	DINEL	Inhalation	0.00 mg/m	population	Oysternie
	DNEL	Long term Dermal	0.94 mg/	Workers	Systemic
	DINEE	Long term Derma	kg bw/day	VIOINEIS	Cysternie
	DNEL	Long term	3.3 mg/m ³	Workers	Systemic
		Inhalation	e.e		-) - ! - ! - ! - ! - ! - ! - ! - ! - !
/laleic anhydride	DNEL	Long term	0.081 mg/	Workers	Local
	DILL	Inhalation	m ³	Workere	Loodi
	DNEL	Long term	0.081 mg/	Workers	Systemic
	DIVLE	Inhalation	m ³	Wonters	Gysternio
	DNEL	Short term	0.2 mg/m ³	Workers	Local
		Inhalation	5 mg/m		2000
	DNEL	Short term	0.2 mg/m ³	Workers	Systemic
		Inhalation			- ,
	DNEL	Long term	0.05 mg/m ³	General	Systemic
	-	Inhalation		population	,
	DNEL	Long term Oral	0.06 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term	0.08 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term Oral	0.1 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic
			bw/day	· • =	- ,
	DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic
			bw/day		- ,

PNECs

No PNECs available

8.2 Exposure controls

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	<u>res</u>
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.
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
	 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
	> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
	Wash hands before breaks and immediately after handling the product.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	 Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

: Liquid.
: Various

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SECTION 9: Physical and	d chen	nical pro	perties		
Odour	: Slight				
Odour threshold	Not ava	ailable.			
Melting point/freezing point	Not ava	ailable.			
Initial boiling point and boiling range	:				
Ingredient name		°C	°F	Method	
butyl acetate		117	242.6	OECD 103	
n-Butyl acetate		126	258.8	OECD 103	
Flammability	Not ava	ailable.	•		
Lower and upper explosion limit	Lower: Upper:				
Flash point	Closed	cup: 25°C (77°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-Methoxy-1-methylethyl acetate		333	631.4	DIN 51794	
n-Butyl acetate		415	779	EU A.15	
Decomposition temperature	Not ava	ailable.			
рН	: 🕅 Not app	olicable.			
Viscosity	Not ava	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	Not ava	ailable.			
Partition coefficient: n-octanol/ water	Not app	olicable.			
Vapour pressure	:				

	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
sobutyl acetate	15.75134	2.1	DIN EN 13016-2				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2				
Relative density	: Not	available.	•				
Density	: 1.5	g/cm³					
/apour density	: Not available.						
Explosive properties	: Not available.						
Dxidising 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.

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SECTION 10: Stability and reactivity

: Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
R-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
2-Methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
Isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	-
Methylisobutylketone	LD50 Oral	Rat	2080 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-
Conclusion/Summary	: Based on available data, the cla	assification criter	ia are not met.	

Conclusion/Summary Acute toxicity estimates

ites	

Route	ATE value	
halation (vapours)	314.91 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ti tanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Isobutyl acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit		mg	
	Skin - Moderate irritant	Rabbit	-	500 mg 24 hours 500	-
	Skin - Moderate Initant	Rabbit	-	mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	_	24 hours 100	-
2 Bateryourland		1 CODDIC		mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Methylisobutylketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				uL	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
<u>Sensitisation</u>					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Mutagenicity					
Conclusion/Summary	: 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.

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

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SECTION 11: Toxicological information

Reproductive toxicity

Conclusion/Summary

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3		Narcotic effects
2-Methoxy-1-methylethyl acetate	Category 3		Narcotic effects
Isobutyl acetate	Category 3		Narcotic effects
Methylisobutylketone	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Maleic anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

Not available.

Information on likely routes : Not available. of exposure

Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	;	No known significant effects or critical hazards.
Ingestion	;	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

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

<u>Short term exposure</u>			
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 effects			
Not available.			

SECTION 11: Toxicological information

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.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - 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
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
Trizinc bis(orthophosphate)	Acute EC50 0.32 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 0.96 mg/l	Crustaceans - Ceriodaphnia dubia	48 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
Methylisobutylketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water		48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

Conclusion/Summary : Toxic to aquatic life with long lasting effects.

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
P-Butyl acetate	2.3	-	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Trizinc bis(orthophosphate)	-	60960	High
Isobutyl acetate	2.3	-	Low
2-Butoxyethanol	0.81	-	Low
Methylisobutylketone	1.9	-	Low
propylidynetrimethanol	-0.47	<1	Low
Maleic anhydride	-2.78	-	Low

12.4 Mobility in soil

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SECTION 12: Ecological information

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 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
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
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

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SECTION 14: Transport information

Additional information		
ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$. <u>Tunnel code</u> (D/E)
ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
IMDG	:	The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
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 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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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]	
FEKNODUR COMBI 3440-0	05	≥90	3	
Labelling	:			
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not liste	d		
Industrial emissions (integrated pollution prevention and control) - Water	: Not liste	d		
Explosive precursors	: Not appl	icable.		
Ozone depleting substance Not listed.	<u>es (1005/20</u>	<u>09/EU)</u>		
Prior Informed Consent (P Not listed.	<u>IC) (649/201</u>	<u>2/EU)</u>		
Persistent Organic Polluta Not listed.	<u>ints</u>			
Courses Directive				

Seveso Directive

This product is controlled under the Seveso Directive. Danger criteria

SECTION 15: Regulatory information

Category

P5c E2

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

SECTION 16: Other information

Indicates information	on that has changed from previously issued version.
Abbreviations and acronyms	 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

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 Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

⊮ 225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
H302	Harmful if swallowed.			
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.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H336	May cause drowsiness or dizziness.			
H351	Suspected of causing cancer.			
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.			
H372	Causes damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
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SECTION 16: Other information		
H410 H411 EUH066	Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.	
EUH071 Corrosive to the respiratory tract. Full text of classifications [CLP/GHS]		

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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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