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



TEKNODUR AQUA 3390-05 - All variants

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

1.1 Product identifier

Product name

: FEKNODUR AQUA 3390-05 - 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 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]

Skin Sens. 1, H317 Aquatic Chronic 3, H412

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	: Warning
Hazard statements	: H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 2: Hazards identification

Hazardous ingredients	: Contains: 2,4,7,9-tetramethyl-5-decyne-4,7-diol and Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
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 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
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤5	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]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	<1	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
Ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	<1	Acute Tox. 4, H302 STOT RE 2, H373 (oral)	ATE [Oral] = 500 mg/kg	[1] [2]
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Date of issue/Date of revision	: 07/09/2023 Dat	e of previous is	sue : 21/10/2022	Version : 2	2/17
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SECTION 3: Comp	osition/informat	ion on in	gredients		
2-Dimethylaminoethanol	REACH #: 01-2119492298-24 EC: 203-542-8 CAS: 108-01-0 Index: 603-047-00-0	≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 2000 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 1641 ppm STOT SE 3, H335: $C \ge 5\%$	[1] [2]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
Butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[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. <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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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	: Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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 adverse health effects persist or are severe. 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. 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 <u>Over-exposure signs/symptoms</u>				
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may include the following: irritation redness			
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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful 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 products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.
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.

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SECTION 6: Accident	al release measures
6.1 Personal precautions, pro	tective 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. 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.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

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7.3 Specific end use(s)

Recommendations

: Not available.

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SECTION 7: Handling and storage

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
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
-	through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	TWA: 123 mg/m ³ 8 hours.
Ethanediol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 10 mg/m ³ 8 hours. Form: Particulate
	TWA: 20 ppm 8 hours. Form: Vapour
	STEL: 40 ppm 15 minutes. Form: Vapour
	TWA: 52 mg/m ³ 8 hours. Form: Vapour
	STEL: 104 mg/m ³ 15 minutes. Form: Vapour
2-Dimethylaminoethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 22 mg/m ³ 15 minutes.
	STEL: 6 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
	TWA: 7.4 mg/m ³ 8 hours.
acetone	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 3620 mg/m ³ 15 minutes.
	STEL: 1500 ppm 15 minutes.
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
Butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 899 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.
procedures European Stat assessment o values and me atmospheres - of exposure to (Workplace at for the measure	buld be made to monitoring standards, such as the following: Indard EN 689 (Workplace atmospheres - Guidance for the f exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment - chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures rement of chemical agents) Reference to national guidance - methods for the determination of hazardous substances will also be
DNELs/DMELs	

Product/ingredient name	Туре	Exposure	Value	Population	Effects
-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m ³	General population	Systemic
	DNEL	Long term	98 mg/m³	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
Solvent naphtha (petroleum), light	DNEL	Inhalation Long term	m ³ 0.41 mg/m ³	General	Systemic
aromatic	DNEL	Inhalation Long term	1.9 mg/m ³	population Workers	Systemic
	DNEL	Inhalation Long term	178.57 mg/	General	Local
	DNEL	Inhalation Short term	m ³ 640 mg/m ³	population General	Local
	DNEL	Inhalation Long term	837.5 mg/	population Workers	Local
	DNEL	Inhalation Short term	m³ 1066.67	Workers	Local
	DNEL	Inhalation Short term	mg/m³ 1152 mg/	General	Systemic
	DNEL	Inhalation Short term	m³ 1286.4 mg/	population Workers	Systemic
2,4,7,9-tetramethyl-5-decyne-4,7-dic		Inhalation Long term Oral	m ³ 0.25 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.25 mg/	population General	Systemic
	DNEL	Long term	kg bw/day 0.43 mg/m³	population General	Systemic
	DNEL	Inhalation Long term Dermal	0.5 mg/kg	population Workers	Systemic
	DNEL	Short term Oral	bw/day 0.75 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 0.75 mg/	population General	Systemic
	DNEL	Short term Inhalation	kg bw/day 1.29 mg/m³	population General population	Systemic
	DNEL	Short term Dermal	1.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	5.28 mg/m ³	Workers	Systemic
2-Dimethylaminoethanol	DNEL	Long term Oral	0.126 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.43755 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	1.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Local
	DNEL	Long term	1.76 mg/m³	Workers	Systemic

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SECTION 8: Exposure controls/personal protection						
	DNEL	Short term Inhalation	5.28 mg/m ³	Workers	Systemic	
	DNEL	Short term Inhalation	13.53 mg/ m³	Workers	Local	
	DNEL	Short term Dermal	100 µg/cm²	Workers	Local	
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.34 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.58 mg/m ³		Systemic	
	DNEL	Long term Dermal	0.94 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	3.3 mg/m ³	Workers	Systemic	

PNECs

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No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures	<u>i</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. Contaminated work clothing should not be allowed out of the workplace. 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: safety glasses with side-shields.
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.
		> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
		Not recommended polyvinyl alcohol (PVA) 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.
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 (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.
Date of issue/Date of revision		: 07/09/2023 Date of previous issue : 21/10/2022 Version : 2 8/17

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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name	°C	°F	Method
water	100	212	
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

Flammability

: Not available.

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

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Flash point

limit

: Closed cup: >100°C (>212°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
2-Butoxyethanol	230	446	DIN 51794
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

Decomposition temperature	: Not available.
рН	: ℤ.9 to 8.5 [Conc. (% w/w): 100%]
Viscosity	: Not available.
Solubility(ies)	1 · · · · · · · · · · · · · · · · · · ·
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				

Relative density	: Not available.
Density	: 17.3 g/cm³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stabilit	and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredient	s.
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	: No specific data.	
10.5 Incompatible materials	: No specific data.	
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
Solvent naphtha (petroleum), light aromatic	LD50 Oral	Rat	8400 mg/kg	-
Reaction mass of Bis	LD50 Dermal	Rat	>3170 mg/kg	-
(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and				
Methyl 1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
	LD50 Oral	Rat	3230 mg/kg	-
2-Dimethylaminoethanol	LC50 Inhalation Gas.	Rat	1641 ppm	4 hours
	LD50 Oral	Rat	2 g/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-

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

Acute toxicity estimates

Route	ATE value	
Inhalation (gases)	38771.86 mg/kg 1303774.5 ppm 96.93 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light aromatic				uL	
2,4,7,9-tetramethyl-	Eyes - Severe irritant	Rabbit	-	0.1 MI	-
5-decyne-4,7-diol					
	Skin - Mild irritant	Rabbit	-	0.5 g	-
2-Dimethylaminoethanol	Eyes - Severe irritant	Rabbit	-	5 uL	-
	Skin - Mild irritant	Rabbit	-	445 mg	-
Conclusion/Summary	: Based on available data, the	e classification o	riteria are	not met.	
<u>Sensitisation</u>					
Conclusion/Summary	: May cause an allergic skin reaction.				
Mutagenicity					
in a tago in orty					

SECTION 11: Toxicological information

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.
- **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
Solvent naphtha (petroleum), light aromatic	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
2-Dimethylaminoethanol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result	
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1	

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Short term exposure		
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	fects	
Not available.		
Conclusion/Summary	: Not available.	
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SECTION 11: Toxicological information

	-
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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

Result	Species	Exposure
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
	Daphnia - <i>Daphnia magna</i>	48 hours
		48 hours
	Fish - Menidia beryllina	96 hours
, Acute EC50 3.2 mg/l	Daphnia	48 hours
Acute LC50 9.2 mg/l	Fish	96 hours
EC50 91 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
LC50 42 mg/l	Fish - Cyprinus carpio	96 hours
EC50 1.68 mg/l	Aquatic plants - Desmodesmodus subspicatus	72 hours
Acute LC50 0.9 mg/l	Fish - Brachydanio rerio	96 hours
Chronic NOEC 1 mg/l	Daphnia	21 days
		48 hours
Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	96 hours
	Acute LC50 6.5 mg/l Fresh water Acute LC50 >1000000 µg/l Marine water Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water Acute EC50 3.2 mg/l Acute LC50 9.2 mg/l EC50 91 mg/l LC50 42 mg/l EC50 1.68 mg/l Acute LC50 0.9 mg/l Chronic NOEC 1 mg/l Acute EC50 13000000 µg/l Fresh water Acute LC50 14400000 µg/l Marine	Acute LC50 6.5 mg/l Fresh waterdubia - NeonateAcute LC50 >1000000 µg/l Marine waterDaphnia - Daphnia pulex - NeonateAcute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water Acute EC50 3.2 mg/lDaphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Menidia beryllina DaphniaAcute LC50 9.2 mg/l EC50 91 mg/lFish Daphnia - Daphnia magnaLC50 42 mg/l EC50 1.68 mg/lFish - Cyprinus carpio Aquatic plants - Desmodesmodus subspicatusAcute LC50 0.9 mg/l Chronic NOEC 1 mg/l Acute EC50 13000000 µg/l Fresh water Acute LC50 14400000 µg/l MarineFish - Brachydanio rerio Daphnia

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
2-Butoxyethanol	0.81	-	Low
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High
2-Dimethylaminoethanol propylidynetrimethanol	-0.55 -0.47	- <1	Low Low

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12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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SECTION 12: Ecological information

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. : 080111*, 200127* European waste catalogue (EWC) **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. This material and its container must be disposed of in a safe way. Care should be **Special precautions** taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 14: Transport information

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]		
FEKNODUR AQUA 3390-05	2	90	3		
Labelling : Other EU regulations					
Industrial emissions : No (integrated pollution prevention and control) - Air	ot listed				
Industrial emissions : No (integrated pollution prevention and control) - Water	ot listed				
Explosive precursors : No Ozone depleting substances (10 Not listed.	ot applicable. 05/2009/EU)				
Prior Informed Consent (PIC) (64 Not listed.	<u>49/2012/EU)</u>				
Persistent Organic Pollutants Not listed.					
Seveso Directive This product is not controlled unde International regulations Chemical Weapon Convention Lis Not listed.			<u>:hemicals</u>		
Montreal Protocol Not listed.					
Stockholm Convention on Persist Not listed.	<u>tent Organic</u>	<u>Pollutant</u>	2		
Rotterdam Convention on Prior In Not listed.	nformed Cor	nsent (PIC)			
UNECE Aarhus Protocol on POPs Not listed.	and Heavy	<u>Metals</u>			
· · · · · · · · · · · · · · · · · · ·	nis product co quired.	ontains sub	stances for which Chemical Saf	ety Assessments	are still
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SECTION 16: Other information

Indicates information that has changed from previously issued version.

	de changed nom providely located 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	
	Calculation method Calculation method	

Full text of abbreviated H statements

<mark>⊮</mark> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
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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