watco[®] SAFETY DATA SHEET

Toughline - Resin

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

1.1 Product identifier

Product name

	8
Product description	: Paint.
Product type	: Liquid.
UFI	: 7V60-C0VG-H00S-AWUQ

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

Identified uses				
Professional use Industrial use				
Uses advised ag	Reason			
Consumer use	Product is not intended for consumer use.			

1.3 Details of the supplier of the safety data sheet

Watco UK Limited Eastgate Court 195-205 High Street Guildford Surrey GU1 3EH Telephone no.: +44 (0) 1483 425000 (08:00 - 18:00) Fax no.: +44 (0) 1483 428888

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

1.4 Emergency telephone number

<u>Supplier</u>	
Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

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]

Eye Irrit. 2, H319 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

: 3

SECTION 2: Hazards	ic	lentification
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	:	Not applicable.
Prevention	:	 P280 - Wear protective gloves and eye protection: nitrile rubber gloves and Safety glasses with side shields. P273 - Avoid release to the environment. P261 - Avoid breathing vapour or spray.
Response	:	P302 - IF ON SKIN: IF ON SKIN: P352 - Wash with plenty of soap and water. P333 - If skin irritation or rash occurs: If skin irritation or rash occurs: P313 - Get medical attention.
Storage	4	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane; tetraethylN, N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate; Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and pine oil
Supplemental label elements	:	Not applicable.
		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	:	Not applicable.
Special packaging requirem	en	ts
Containers to be fitted with child-resistant fastenings		Not applicable.
Tactile warning of danger	:	Not applicable.
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	I		1
			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
bis(4-(1,2-bis (ethoxycarbonyl) ethylamino) -3-methylcyclohexyl) methane	REACH #: 01-0000015937-58 EC: 412-060-9 CAS: 136210-32-7 Index: 607-350-00-9	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351	[1]
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl- aspartate	REACH #: 01-0000017556-46 CAS: 136210-30-5 Index: 607-521-00-8	≤10	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 Index: 649-356-00-4	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
diethyl fumarate	EC: 210-819-7 CAS: 623-91-6	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1]
Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	REACH #: 01-2119491304-40 EC: 255-437-1 CAS: 41556-26-7	≤1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	EC: 280-060-4 CAS: 82919-37-7	≤1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
pine oil	EC: 616-792-1 CAS: 8002-09-3	≤0,3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
butyl glycollate	REACH #: 01-2119514685-36 EC: 230-991-7 CAS: 7397-62-8	≤0,3	Eye Dam. 1, H318 Repr. 2, H361	[1]
			See Section 16 for the full text of the H statements declared above.	

Notes

The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 µm.

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. Type

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane, tetraethylN,N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate, Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, pine oil. May produce an allergic reaction.

Over-exposure signs/symptoms

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

SECTION 4: First aid measures

4.3 Indication of any im	.3 Indication of any immediate medical attention and special treatment needed					
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 					
Specific treatments	: No specific treatment.					

See toxicological information (Section 11)

SECTION 5: Firefighting measures				
5.1 Extinguishing media				
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.			
Unsuitable extinguishing media	: Do not use water jet.			
5.2 Special hazards arising t	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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
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 : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel 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. If specialised clothing is required to deal with the spillage, take note of any For emergency responders : information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 6.2 Environmental : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains precautions 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

SECTION 6: Accidental release measures

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.

7.1 Precautions for safe : Prevent the creation of flammable or explosive concentrations of vapours in air and handling avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
titanium dioxide	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Oral	700 mg/kg bw/day	General population [Consumers]	Systemic
tetraethylN,N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate	DNEL	Long term Oral	4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	28 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
titanium dioxide	Fresh water	0,127 mg/l	-
	Marine	>1 mg/l	-
	Sewage Treatment Plant	>100 mg/l	-
	Fresh water sediment	>1000 mg/kg	-
	Marine water sediment	>100 mg/kg	-
	Soil	100 mg/kg	-
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Fresh water	0,00013 mg/l	-
	Marine	0,000013 mg/l	-
	Fresh water sediment	0,21 mg/kg dwt	-
	Marine water sediment	0,02 mg/kg dwt	-
	Soil	0,1 mg/kg dwt	-
	Sewage Treatment Plant	31,1 mg/l	-
	Secondary Poisoning	66,67 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

Individual protection me	asures
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: chemical splash goggles. Recommended: (EN 166)

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves	1	For prolonged or repeated handling, use the following type of gloves:
		Recommended: > 8 hours (breakthrough time): nitrile rubber gloves The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN 374
		The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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. Recommended: Wear overalls or long sleeved shirt. (EN 467)
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. Recommended: organic vapour (Type A) and particulate filter (EN 140)
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

9.1 Information on basic physical and chemical properties

Appearance

Appearance		
Physical state	1	Liquid.
Colour	1	Various
Odour	1	Solvent-like
Odour threshold	1	Not available.
рН	1	Not available.
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	÷	Closed cup: 61 to 93,3°C
Evaporation rate	1	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	1	1,87
Solubility(ies)	1	Not available.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Viscosity	;	Not available.
Explosive properties	1	Not available.
Oxidising properties	1	Not available.

9.2 Other information

No additional information.

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	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis(4-(1,2-bis	LC50 Inhalation Dusts and	Rat - Male,	>4,224 mg/l	4 hours
(ethoxycarbonyl)ethylamino)	mists	Female	_	
-3-methylcyclohexyl)				
methane				
titanium dioxide	LC50 Inhalation Dusts and	Rat - Male,	3,43 to 5,09 mg/l	4 hours
	mists	Female		
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	>24 g/kg	-
tetraethyIN,N'-(LC50 Inhalation Dusts and	Rat	>4,224 mg/m³	4 hours
methylenedicyclohexane-	mists			
4,1-diyl) bis-dl-aspartate				
	LD50 Oral	Rat	>2000 mg/kg	-
hydrocarbons, aromatic, C9	LD50 Oral	Mouse	8400 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
diethyl fumarate	LD50 Oral	Rat	1780 mg/kg	-
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
methyl	LD50 Dermal	Rat	>2000 mg/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
	LD50 Oral	Rat	>2000 mg/kg	-
pine oil	LD50 Dermal	Rabbit	5 g/kg	-
	LD50 Oral	Rat	2,1 g/kg	-
butyl glycollate	LD50 Oral	Rat	4595 mg/kg	-
Conclusion/Summary	: Based on available data, the o	lassification crite	ria are not met.	

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

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Redness of the conjunctivae	Rabbit	1	-	-
hydrocarbons, aromatic, C9	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Skin - Oedema	Rabbit	0	-	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Skin - Oedema	Rabbit	0	-	-
pine oil	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary	
Skin	: Based on available data, the classification criteria are not met.
Eyes	: Causes serious eye irritation.
Respiratory	: Based on available data, the classification criteria are not met.
Sensitisation	

Date of issue/Date of revision

SECTION 11: Toxicological information

	•		
Product/ingredient name	Route of exposure	Species	Result
titanium dioxide	skin skin	Guinea pig Mouse	Not sensitizing Not sensitizing
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	skin	Guinea pig	Sensitising
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	skin	Guinea pig	Sensitising
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	skin	Guinea pig	Sensitising

Conclusion/Summary

Skin

Respiratory

: May cause an allergic skin reaction.

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
titanium dioxide	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative
hydrocarbons, aromatic, C9	OECD 471	Subject: Bacteria	Negative
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary

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

Carcinogenicity

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

Conclusion/Summary Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
titanium dioxide hydrocarbons, aromatic, C9	Negative	Negative	Negative Negative	Rat - Male, Female Mammal - species unspecified	Oral: 100 to 3001000 mg/kg Route of exposure unreported	20 days; 7 days per week -
Conclusion/Summary	: Based on	available da	ta, the classificat	ion criteria are not me	et.	L]

Teratogenicity

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

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

		<u>.</u>	<u>.</u>
Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, aromatic, C9	Category 3	-	Respiratory tract irritation
diethyl fumarate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/i	ngredient name			Result	
hydrocarbons, aromatic, C9 pine oil		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1			
Delayed and immediate effect	ts as well as chronic effects f	rom	short and lon	g-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 effe	ects				
Product/ingredient name	Result	Spe	ecies	Dose	Exposure
titanium dioxide	Chronic NOAEL Oral Chronic NOAEL Inhalation Dusts and mists	Rat Rat		3500 mg/kg 10 mg/m³	- 24 hours
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Sub-acute NOAEL Oral	Rat		1000 mg/kg	-
Conclusion/Summary	: Based on available data, the	e clas	sification crite	ria are not met.	
General	: Once sensitized, a severe a to very low levels.	allergi	c reaction may	occur when sub	sequently exposed
Carcinogenicity	: No known significant effects	s or c	ritical hazards.		
Mutagenicity	: No known significant effects or critical hazards.				
Teratogenicity	: No known significant effects or critical hazards.				
Developmental effects	: No known significant effects	s or c	ritical hazards.		
Fertility effects	: No known significant effects	s or c	ritical hazards.		
Other information	: Not available.				

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl) methane	Chronic NOEC 0,01 mg/l	Daphnia spec.	21 days
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6,5 mg/l Fresh water	Daphnia spec Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Acute EC50 88,6 mg/l	Daphnia spec.	48 hours
	Acute IC50 113 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute LC50 66 mg/l	Fish	96 hours
	Chronic NOEC 0,01 mg/l	Daphnia spec.	21 days
diethyl fumarate	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Acute EC50 1,68 mg/l	Aquatic plants - Desmodesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Bacteria	3 hours
	Acute EC50 20 mg/l	Daphnia spec.	24 hours
	Acute LC50 0,97 mg/l	Fish	96 hours
	Acute LC50 7,9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia spec.	21 days
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Acute EC50 1,68 mg/l	Aquatic plants - Desmodesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Bacteria	3 hours
	Acute EC50 20 mg/l	Daphnia spec.	24 hours
	Acute LC50 0,97 mg/l	Fish	96 hours
	Acute LC50 7,9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia spec.	21 days
pine oil	Acute EC50 24,5 ppm Fresh water	Daphnia spec Daphnia magna	48 hours
r	Acute LC50 18,35 ppm Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling,	96 hours
		Weanling)	

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl) methane	OECD 301F	13 % - 28 days	-	-
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	OECD 301F	13 % - Not readily - 28 days	-	-
	OECD 302C	0 % - Not readily - 28 days	-	-
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	OECD 301F	38 % - Not readily - 28 days	-	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	OECD 301F	38 % - Not readily - 28 days	-	-
Conclusion/Summary	: Based on avail	able data, the classification crite	ria are not met.	·

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl) methane	-	-	Not readily
titanium dioxide	-	-	Not readily
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Fresh water 28 days, pH 4, 25°C (OECD 111) Fresh water 1 days, pH 7, 25°C (OECD 111) Fresh water 0,7 days, pH 9, 25°C (OECD 111)	-	Not readily
hydrocarbons, aromatic, C9	- ,	-	Readily
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	-	-	Not readily
methyl 1,2,2,6,6-pentamethyl-	-	-	Not readily
4-piperidyl sebacate butyl glycollate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl) methane	5,99	0,25	low
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	5,16	0,25	low
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	2.4 to 2.8	-	low
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	2.4 to 2.8	-	low
butyl glycollate	0,38	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

SECTION 13: Disposal considerations

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	Yes.
Disposal considerations	 Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
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. 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	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.
Additional information	-	-	-	-

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.

SECTION 14: Transport information

SECTION 15: Regulatory information

5.1 Safety, health and enviro	onmental regulations	/legislation specific	for the substance or	mixture
EU Regulation (EC) No. 1907	7/2006 (REACH)			
Annex XIV - List of substar	ices subject to autho	orisation		
<u>Annex XIV</u>				
None of the components ar	e listed.			
Substances of very high o	<u>concern</u>			
None of the components ar	e listed.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Other EU regulations				
VOC	product label and/	or technical data shee	on VOC apply to this p t for further information	
VOC for Ready-for-Use Mixture	: 2004/42/EC - IIA/j:	500g/l (2010). <= 80	g/I VOC.	
Europe inventory	: All components ar	e listed or exempted.		
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
titanium dioxide butyl glycollate	Not supported Not supported	Not supported Not supported	Not supported Not supported	Not supported Not supported
Ozone depleting substance Not listed.	es (1005/2009/EU)			
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU)</u>			

Seveso Directive

This product is not controlled under the Seveso Directive.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

References

: EH40/2005 Workplace exposure limits Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

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

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SECTION 15: Regulatory information

Not listed.

CN code : 3210 00 90

International lists

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (ENCS): Not determined Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines Republic of Korea	Not determined.Not determined.
Taiwan	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Thailand	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
	VF VD - Very Feisistent and Very Dioaccumulative

Contains TiO2

: Yes

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

Classification	Justification
Eye Irrit. 2, H319	Expert judgment
Skin Sens. 1, H317	Expert judgment
Aquatic Chronic 3, H412	Expert judgment

Full text of H-phrases referred to in sections 2 and 3

Full text of abbreviated H	: H226	Elemmoble liquid and veneur
	-	Flammable liquid and vapour.
statements	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H351	Suspected of causing cancer.
	H361	Suspected of damaging fertility or the unborn child.
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SECTION 16: Other information			
<u>.</u>	H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effeH411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effectEUH066Repeated exposure may cause skin dryness	S.	
Full text of classifications [CLP/GHS]	Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARI) - Category	
	Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZAF Category 1	:D -	
	Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZAF Category 2	:D -	
	Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZAF Category 3	D -	
	Asp. Tox. 1 ASPIRATION HAZARD - Category 1		
	Carc. 2 CARCINOGENICITY - Category 2		
	Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION		
	Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION Flam. Lig. 3 FLAMMABLE LIQUIDS - Category 3	- Category 2	
	Repr. 2 REPRODUCTIVE TOXICITY - Category 2		
	Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category	2	
	Skin Sens. 1 SKIN SENSITISATION - Category 1	-	
	Skin Sens. 1A SKIN SENSITISATION - Category 1A		
	STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SI EXPOSURE - Category 3	NGLE	
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Version			
Notice to reader			

Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.