

atco SAFETY DATA SHEET

Food Safe Coating - Resin

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

1.1 Product identifier

Product name : Food Safe Coating - Resin

Product description : Paint
Product type : Liquid.

UFI : XQU0-90A6-9003-4SFM

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

	Identified uses
Consumer Industrial Professional	

Uses advised against	Reason	
None identified.	-	

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

National advisory body/Poison Centre

Telephone number Ireland : 809 2166

Available 8am to 10pm 7 days per week

Supplier

Telephone number Ireland : +353 19014670

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]

Flam. Liq. 3, H226 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.

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SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms





Signal word : Warning

: H226 - Flammable liquid and vapour. **Hazard statements**

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : P103 - Read carefully and follow all instructions.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention : P280 - Wear protective gloves.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

: P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated Response

clothing. Rinse skin with water.

: P403 + P235 - Store in a well-ventilated place. Keep cool. Storage

Disposal : P501 - Dispose of contents and container in accordance with all local, regional.

national and international regulations.

Hazardous ingredients tetraethylN,N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

diethyl fumarate

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Supplemental label

elements

: EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

Supplemental label elements : Detergents -

Regulation (EC) No

907/2006

articles

: Not applicable.

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Ireland

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	REACH #: 01-0000017556-64 EC: 429-270-1 CAS: 136210-30-5 Index: 607-521-00-8	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
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	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5	≤10	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	≤1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 1780 mg/kg	[1]
Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7	≤1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 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 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
pine oil	CAS: 8002-09-3 List #: 616-792-1	≤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]
Turpentine, oil	REACH #: 01-2119553060-53 EC: 232-350-7 CAS: 8006-64-2 Index: 650-002-00-6	≤0,3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 13,7 mg/l	[1] [2]

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SECTION 3: Composition/informati	ion on ingredients	
	Aquatic Chronic 2, H411 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.

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

List numbers have no legal significance.

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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. 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.

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.

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

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

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SECTION 4: First aid measures

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 : 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".

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SECTION 6: Accidental release measures

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. 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.

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. 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. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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SECTION 7: Handling and storage

	Notification and MAPP threshold	Safety report threshold	
P5c	5000 tonne	50000 tonne	

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Ireland

Product/ingredient name	Exposure limit values
Turpentine, oil	NAOSH (Ireland, 3/2016). OELV-15min: 840 mg/m³ 15 minutes. OELV-15min: 150 ppm 15 minutes. OELV-8hr: 112 mg/m³ 8 hours. OELV-8hr: 20 ppm 8 hours.

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	Type	Exposure	Value	Population	Effects
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
hydrocarbons, aromatic, C9	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
	DNEL	Long term Oral	11 mg/kg	General population	Systemic
butyl glycollate	DNEL	Long term Dermal	34,7 mg/kg	Workers	Systemic

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term	21,2 mg/m ³	Workers	Systemic
		Inhalation	, 5		,
	DNEL	Long term Oral	2 mg/kg	General	Systemic
				population	
	DNEL	Long term Dermal	20,8 mg/kg		Systemic
			_	population	
	DNEL	Long term Dermal	0,28 mg/kg		Local
	5.151		40 = 4 3	population	
	DNEL	Long term	43,5 mg/m ³		Systemic
	DATE	Inhalation	40 5 / 2	population	
	DNEL	Long term	43,5 mg/m ³		Local
Turnontino oil	DNEI	Inhalation	0.161 mg/	population	Local
Turpentine, oil	DNEL	Short term Dermal	0,161 mg/ cm ²	Workers	Local
	DNEL	Short term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5,98 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	0,081 mg/	General	Local
	DINEL	Short term Dermai	cm ²	population	LUCAI
			CIII	[Consumers]	
	DNEL	Long term	1,06 mg/m ³		Systemic
		Inhalation	.,	population	- ,
				[Consumers]	
	DNEL	Long term Oral	0,31 mg/	General	Systemic
			kg bw/day	population	-
			,	[Consumers]	

PNECs

tetraethylN,N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate Marine	Product/ingredient name	Compartment Detail	Value	Method Detail
Marine Fresh water sediment Marine water sediment Soil Sewage Treatment Plant Secondary Poisoning Sewage Treatment Plant Sewage Treatment Plant Sewage Treatment Plant Fresh water sediment Soil Marine water sediment Soil Marine water Soil Marine water O,02 mg/kg - O,127 mg/l - O,128 mg/l		Fresh water	0,00013 mg/l	-
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Fresh water				-
Fresh water		Secondary Poisoning	66,67 mg/kg	-
Marine Sewage Treatment Plant Fresh water sediment Soil Warine water O,0184 mg/l - O,003 mg/l - O,003 mg/l - O,003 mg/l - O,0046 mg/kg - O,046 mg/kg - O,046 mg/kg - O,0746 mg/kg -	itanium dioxide			-
Plant Fresh water sediment Soil Soil Soil Soil Soil Soil Plant Plant Soil So		Marine		-
Marine water sediment Soil 100 mg/kg - 100 mg/kg		_	>100 mg/l	-
Soil		Fresh water sediment	>1000 mg/kg	-
Soil		Marine water sediment	>100 mg/kg	-
Fresh water		Soil		-
Fresh water		Marine water		-
Marine water 0,003 mg/l - 0,46 mg/kg - 0,046 mg/kg - 0,0746 mg/kg - 0,0746 mg/kg - 0,0746 mg/kg - 0,327 mg/l - 0,327 mg/l 0,327 mg/l 0,327 mg/l		Fresh water		-
Fresh water sediment Marine water sediment Sewage Treatment Plant Soil Reaction mass of ethylbenzene and xylene Reaction mass of ethylbenzene and xylene Fresh water Marine water Marine water Marine water Marine water sediment Marine water	di-isobutyl ketone	Fresh water	0,03 mg/l	-
Marine water sediment Sewage Treatment Plant Soil 0,0746 mg/kg -	·	Marine water	0,003 mg/l	-
Marine water sediment Sewage Treatment Plant Soil 0,0746 mg/kg -		Fresh water sediment	0,46 mg/kg	-
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Reaction mass of ethylbenzene and xylene Fresh water Marine water Fresh water sediment Marine water sediment Soil			2,55 mg/l	-
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Marine water sediment 12,46 mg/kg -		Fresh water sediment		-
Soil 2,31 mg/kg -		Marine water sediment		-
		Soil		-
		Sewage Treatment		-

SECTION 8: Exposure controls/personal protection

Plant Fresh water 0,05 mg/l 0,0112 mg/kg - 0,203 mg/kg - 232 mg/l - 2	Editori of Exposure controlor	<u>. </u>		<u> </u>
Soil 0,0112 mg/kg - 223 mg/l - 232 m				
Fresh water sediment Sewage Treatment Plant	butyl glycollate			-
Sewage Treatment Plant				-
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Marine				
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Soil 0,45 mg/kg 6,6 mg/l -				-
Sewage Treatment				-
Plant				-
2-methoxy-1-methylethyl acetate			6,6 mg/l	-
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Sewage Treatment Plant 100 mg/l -			0,329 mg/kg	-
xylene (mixture of isomeres) Plant Fresh water Marine water sediment Marine water sediment Soil Ethylbenzene Plant Fresh water sediment Alarine water sediment Plant Ethylbenzene Plant Fresh water sediment Marine water sediment Plant Ethylbenzene Plant Fresh water Ethylbenzene Plant Ethylbenzene Presh water Ethylbenzene Presh water sediment Marine water sediment Soil Sewage Treatment Plant Presh water Ethylbenzene Presh water sediment Narine water sediment Plant Presh water Ethylbenzene Presh water sediment Plant Presh water Ethylbenzene Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitionin				-
xylene (mixture of isomeres) Fresh water Marine water Fresh water sediment Soil Sewage Treatment Plant ethylbenzene Fresh water sediment Soil Sewage Treatment Plant ethylbenzene Fresh water sediment Soil Sewage Treatment Plant Fresh water Marine water sediment Soil Sewage Treatment Plant Fresh water Soil Sewage Treatment Marine water sediment Soil Sewage Treatment Plant Fresh water Soil Sewage Treatment Plant Fresh water Sewage Treatment Plant Fresh water Sewage Treatment Plant Fresh water sediment Marine water sediment Narine water sediment Plant Fresh water sediment Narine water sediment Plant Fresh water sediment Narine water sediment N			100 mg/l	-
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Fresh water sediment Marine water sediment Soil Sewage Treatment Plant Fresh water sediment Narine water sediment Soil Sewage Treatment Plant Fresh water Sediment Narine water sediment Soil Sewage Treatment Plant Fresh water Sediment Narine water sediment Soil Sewage Treatment Plant Soil Sewage Treatment Plant Soil Sewage Treatment Plant Fresh water Sediment Narine water Sediment Soil Sewage Treatment Plant Fresh water Sediment Narine water Sediment Sewage Treatment Plant Fresh water Sediment Narine water Sediment Sewage Treatment Plant Fresh water Sediment Sewage Treatment Plant Fresh water Sediment Narine water sediment Sewage Treatment Plant Fresh water sediment Narine w	xylene (mixture of isomeres)	Fresh water		
Marine water sediment Soil Sewage Treatment Plant Presh water sediment Narine water sediment Plant Plant Presh water Soil Sewage Treatment Plant				
Soil 2,31 mg/kg Equilibrium Partitioning Sewage Treatment Plant		Fresh water sediment		
Sewage Treatment 6,58 mg/l -				
ethylbenzene Plant Fresh water				Equilibrium Partitioning
ethylbenzene			6,58 mg/l	-
Marine water				
Fresh water sediment 13,7 mg/kg - 1,37 mg/kg - 1,37 mg/kg -	ethylbenzene			-
Marine water sediment 1,37 mg/kg -				-
Soil 2,68 mg/kg -				-
Sewage Treatment Plant 2-methylpropan-1-ol Fresh water Marine water Sewage Treatment Plant 10 mg/l Plant Fresh water sediment Plant Fresh water sediment Fresh water sediment Marine water sediment Fresh water sediment Marine water sediment 1,52 mg/kg Marine water sediment 0,125 mg/kg				-
Plant 2-methylpropan-1-ol Fresh water Marine water Sewage Treatment Plant Fresh water sediment Fresh water sediment Marine water sediment O,4 mg/l - 10 mg/l - 10 mg/l - 0,125 mg/kg - 0,125 mg/kg				-
2-methylpropan-1-ol Fresh water 0,4 mg/l - Marine water 0,04 mg/l - Sewage Treatment 10 mg/l - Plant Tresh water sediment 1,52 mg/kg - Marine water sediment 0,125 mg/kg -			9,6 mg/l	-
Marine water 0,04 mg/l - Sewage Treatment 10 mg/l - Plant Fresh water sediment 1,52 mg/kg - Marine water sediment 0,125 mg/kg -				
Sewage Treatment 10 mg/l - Plant Fresh water sediment 1,52 mg/kg - Marine water sediment 0,125 mg/kg -	2-methylpropan-1-ol			-
Plant				-
Fresh water sediment 1,52 mg/kg - Marine water sediment 0,125 mg/kg -			10 mg/l	-
Marine water sediment 0,125 mg/kg -				
				-
Soil 0,0699 mg/kg -				-
		Soil	0,0699 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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.

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SECTION 8: Exposure controls/personal protection

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. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields.

Skin 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.

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. > 8 hours (breakthrough time): polyethylene/ethylene vinyl alcohol (PE/EVAL) gloves

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. 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. 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. Recommended: (EN 467) Overalls buttoned to the neck and wrist.

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 141)

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour : Various

Odour : Solvent-like

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Ingredient name	°C	°F	Method
hydrocarbons, aromatic, C9	165 to 181	329 to 357,8	ASTM D 86

Flammability (solid, gas) : Not available.

Lower and upper explosion : Not available.

limit

Flash point : Closed cup: >43°C (>109,4°F) [Literature]

Auto-ignition temperature : Not relevant due to nature of the product.

Decomposition temperature : Not available.pH : Not applicable.

pH: **Justification** : Product is non-soluble (in water).

Viscosity : Dynamic: 1500 to 1800 mPa·s [DIN EN ISO 3219]

Solubility(ies) :

Not available.

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : Not available.

Evaporation rate : Not available.

Relative density : Not available.

Density : 1,663 to 1,723 g/cm³ [20°C (68°F)] [DIN 53217]

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

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

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid

- : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- 10.5 Incompatible materials
- : Reactive or incompatible with the following materials: oxidising materials

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 <u>Acute toxicity</u>

Product/ingredient name	Result	Species	Dose	Exposure
tetraethylN,N'-(LC50 Inhalation Dusts and	Rat	>4,224 mg/m ³	4 hours
methylenedicyclohexane-	mists		_	
4,1-diyl) bis-dl-aspartate				
	LD50 Oral	Rat	>2000 mg/kg	-
bis(4-(1,2-bis	LC50 Inhalation Dusts and	Rat - Male,	>4,224 mg/l	4 hours
(ethoxycarbonyl)ethylamino)	mists	Female		
-3-methylcyclohexyl)				
methane	L D 50 0 !	D. 4	0.400	
hydrocarbons, aromatic, C9	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	-
4-piperidyi) sebacate	LD50 Oral	Rat	>2000 mg/kg	
methyl	LD50 Oral	Rat	>2000 mg/kg	_
1,2,2,6,6-pentamethyl-	LD30 Dermai	Ital	/ 2000 mg/kg	_
4-piperidyl sebacate				
Piperiay: eesacate	LD50 Oral	Rat	>2000 mg/kg	_
pine oil	LD50 Dermal	Rabbit	5 g/kg	_
F	LD50 Oral	Rat	2,1 g/kg	-
butyl glycollate	LD50 Oral	Rat	4595 mg/kg	-
Turpentine, oil	LC50 Inhalation Vapour	Rat	16600 mg/m³	2 hours
	LC50 Inhalation Vapour	Rat	13700 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	13700 mg/m ³	4 hours
	LD50 Oral	Rat	3956 mg/kg	-
	LDLo Dermal	Rabbit	5010 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
hydrocarbons, aromatic, C9	8400	N/A	N/A	N/A	N/A
diethyl fumarate	1780	N/A	N/A	N/A	N/A
pine oil	2100	5000	N/A	N/A	N/A
butyl glycollate	4595	N/A	N/A	N/A	N/A
Turpentine, oil	500	1100	N/A	13,7	N/A

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Eyes - Redness of the conjunctivae	Rabbit	1	-	-
	Skin - Mild irritant	Rabbit	-	-	-
hydrocarbons, aromatic, C9	Eyes - Mild irritant	Rabbit	-	24 hours 100 UI	-
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	-
Turpentine, oil	Skin - Severe irritant	Human	-	0.1 Percent	-
·	Skin - Severe irritant	Rabbit	-	500 microliters	-

Conclusion/Summary

Skin
 Based on available data, the classification criteria are not met.
 Eyes
 Based on available data, the classification criteria are not met.
 Respiratory
 Based on available data, the classification criteria are not met.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
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: May cause an allergic skin reaction.

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
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
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

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

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SECTION 11: Toxicological information

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, aromatic, C9	-	-	•	unspecified	Route of exposure unreported	-

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
	Category 3	-	Respiratory tract irritation Narcotic effects
diethyl fumarate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, aromatic, C9 pine oil	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Turpentine, oil	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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 : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	Sub-acute NOAEL Oral	Rat	1000 mg/kg	-

Conclusion/Summary

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

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

Product/ingredient name	Result	Species	Exposure
tetraethylN,N'-(Acute EC50 88,6 mg/l	Daphnia spec.	48 hours
methylenedicyclohexane-			
4,1-diyl) bis-dl-aspartate			
	Acute IC50 113 mg/l	Algae - Scenedesmus	72 hours
		subspicatus	
	Acute LC50 66 mg/l	Fish	96 hours
	Chronic NOEC 0,01 mg/l	Daphnia spec.	21 days
bis(4-(1,2-bis	Chronic NOEC 0,01 mg/l	Daphnia spec.	21 days
(ethoxycarbonyl)ethylamino)			
-3-methylcyclohexyl)methane			
diethyl fumarate	Acute LC50 4500 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Bis(1,2,2,6,6-pentamethyl-	Acute EC50 1,68 mg/l	Aquatic plants - Desmodesmus	72 hours
4-piperidyl) sebacate	, ,	subspicatus	
, ,	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	Acute EC50 1,68 mg/l	Aquatic plants - Desmodesmus	72 hours
1,2,2,6,6-pentamethyl-		subspicatus	
4-piperidyl sebacate		·	
	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	
•	Acute LC50 18,35 ppm Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
Turpentine, oil	Acute EC50 17 mg/l	Algae	72 hours
•	Acute EC50 8,8 mg/l	Daphnia spec.	48 hours
	Acute LC50 29 mg/l	Fish	96 hours
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SECTION 12: Ecological information

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	OECD 301F	13 % - Not readily - 28 days	-	-
,	OECD 302C	0 % - Not readily - 28 days	-	-
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino)	OECD 301F	13 % - 28 days	-	-
-3-methylcyclohexyl)methane				
Bis(1,2,2,6,6-pentamethyl-	OECD 301F	38 % - Not readily - 28 days	-	-
4-piperidyl) sebacate				
methyl	OECD 301F	38 % - Not readily - 28 days	-	-
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate				

Conclusion/Summary

: Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
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
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane	-	_	Not readily
hydrocarbons, aromatic, C9 Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	-	-	Readily Not readily
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	-	-	Not readily
butyl glycollate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetraethylN,N'-(methylenedicyclohexane- 4,1-diyl) bis-dl-aspartate	5,16	0,25	low
bis(4-(1,2-bis (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane	5,99	0,25	low
hydrocarbons, aromatic, C9 Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	3.7 to 4.5 2.4 to 2.8	10 to 2500 -	high low
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	2.4 to 2.8	-	low
butyl glycollate Turpentine, oil	0,38 4,5	-	low high

12.4 Mobility in soil

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

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

: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Special precautions

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III

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SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Limited quantity: ≤ 5L Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. Tunnel code: (D/E)	Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.	Emergency schedules: F-E, S-E Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. Remarks: ≤ 5L: Limited Quantity - IMDG 3.4	Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.

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.

14.7 Transport in bulk according to IMO instruments

: Not available.

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

: Not applicable.

Other EU regulations

VOC

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture

: IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit value for this product: 500g/l (2010.) This product contains a maximum of 72 g/l VOC.

Industrial emissions (integrated pollution prevention and control) - : Not listed

Industrial emissions (integrated pollution prevention and control) -Water

: Not listed

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SECTION 15: Regulatory information

Ozone depleting substances (1005/2009/EC)

Not listed.

Prior Informed Consent (PIC) (649/2012/EC)

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

Ireland

Biocidal products

regulation

: Not applicable.

References: Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No.

619 of 2001)

Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of

2001)

Safety, Health and Welfare at Work (General Application) Regulations 2007 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name	Ingredient name	Status
Not listed.		

CN code : 3208 90 19 00

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic Union: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : At least one component is not listed.

Republic of Korea : At least one component is not listed.

Taiwan : Not determined.

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SECTION 15: Regulatory information

Thailand : Not determined.
Turkey : Not determined.

United States : At least one component is not listed.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

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

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

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	Expert judgment	
Skin Sens. 1, H317	Expert judgment	
Aquatic Chronic 3, H412	Expert judgment	

Full text of abbreviated H statements

Ireland

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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 ICLP/GHS1 Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Chronic 1
Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Chronic 2
Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Chronic 3
Asp. Tox. 1 ASPIRATION HAZARD - Category 1

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SECTION 16: Other information

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
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 - SINGLE EXPOSURE -

Category 3

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Notice to reader

IMPORTANT NOTE: 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 information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.