RESENE ARMOURBOND HARDENER

Resene Paints Ltd

Version No: **1.2**Safety Data Sheet according to HSNO Regulations

Issue Date: **13/06/2019** Print Date: **13/06/2019** L.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	RESENE ARMOURBOND HARDENER
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses 9342

Details of the supplier of the safety data sheet

Registered company name	Resene Paints Ltd
Address	32-50 Vogel Street Wellington New Zealand
Telephone	+64 4 577 0500
Fax	+64 4 5773327
Website	www.resene.co.nz
Email	advice@resene.co.nz

Emergency telephone number

Association / Organisation	Resene Paints Ltd	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 2 9186 1132

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification [1]	Eye Irritation Category 2A, Flammable Liquid Category 4, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Acute Toxicity (Oral) Category 5, Acute Toxicity (Dermal) Category 5, Skin Sensitizer Category 1, Carcinogenicity Category 2, Chronic Aquatic Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	3.1D, 6.1E (dermal), 6.1E (oral), 6.1E (respiratory), 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 9.1C	

Label elements

Hazard pictogram(s)





SIGNAL WORD W

WARNING

Hazard statement(s)

H319	Causes serious eye irritation.
H227	Combustible liquid.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H361	Suspected of damaging fertility or the unborn child.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

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Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P210	eep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P370+P378	n case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
1 001	Dispose of Softenier of the association with Issain of Williams

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017 to be identified:

Mixtures

CAS No	%[weight]	Name
90-72-2	<3	2,4,6-tris[(dimethylamino)methyl]phenol
100-51-6	10-20	<u>benzyl alcohol</u>
111-40-0	<3	diethylenetriamine

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Seek medical attention without delay if pain persists or recurs. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Inhalation	If aerosols, fumes or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.	
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. 	

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

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Extinguishing media

► Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents

Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.	
Fire/Explosion Hazard	► Combustible. Combustion products include: carbon dioxide (CO2) aldehydes other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.	

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Contain spill with inert non- combustible absorbent then place in suitable container for disposal. Clean area with large quantity of water to complete clean-up.
Major Spills	Moderate hazard. Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid unnecessary personal contact, including inhalation. DO NOT allow clothing wet with material to stay in contact with skin
Other information	► Store in original containers.

Conditions for safe storage, including any incompatibilities

Suitable container	► Packaging as recommended by manufacturer.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Not Available

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	diethylenetriamine	Diethylene triamine	1 ppm / 4.2 mg/m3	Not Available	Not Available	(skin) - Skin absorption

EMERGENCY LIMITS

diethylenetriamine

Ingredient	Material name TEEL-1 TEEL-2 TEEL-3		TEEL-3	
2,4,6- tris[(dimethylamino)methyl]phenol	Tris(dimethylaminomethyl)phenol, 2,4,6-	3.6 mg/m3	40 mg/m3	240 mg/m3
benzyl alcohol	Benzyl alcohol	30 ppm	52 ppm	740 ppm
diethylenetriamine	Diethylenetriamine	3 ppm	8.5 ppm	51 ppm
Ingredient	Original IDLH	Revised IDLH		
ingredient	Original IDEN	NEVISCO IDEIT		
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available	Not Available		
benzyl alcohol	Not Available	Not Available		

Not Available

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MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Fragrance substance with is an established contact allergen in humans.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	► Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. NOTE: The material may produce skin sensitisation in predisposed individuals. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.
Body protection	See Other protection below
Other protection	▶ Overalls.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

'Forsberg Clothing Performance Index'.

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	A
VITON	A
NEOPRENE	С
PVC	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.
* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Type A Filter of sufficient capacity.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the 'Exposure Standard' (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^
A . E. II C			

^ - Full-fac

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear to umber liquid		
Physical state	Liquid	Relative density (Water = 1)	0.98-1.01
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Available
Flash point (°C)	80-95	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	1
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	4

SECTION 10 STABILITY AND REACTIVITY

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Reactivity	See section 7
Chemical stability	▶ stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information	on	toxico	logical	effects
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Information on toxicological	errects
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Prolonged or repeated exposure to benzyl alcohol may cause allergic contact dermatitis.

RESENE ARMOURBOND	TOXICITY	
HARDENER	Not Available	

TOXICITY	IRRITATION
Not Available	Not Available

2,4,6tris[(dimethylamino)methyl]phenol

TOXICITY	IRRITATION
dermal (rat) LD50: >973 mg/kg ^[1]	Eye (rabbit): 0.05 mg/24h - SEVERE
Inhalation (rat) LC50: >0.125 mg/l/1hr.] ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
Oral (rat) LD50: 1200 mg/kg ^[2]	Skin (rabbit): 2 mg/24h - SEVERE
	Skin: adverse effect observed (corrosive) ^[1]

benzyl alcohol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 2000 mg/kg ^[2]	Eye (rabbit): 0.75 mg open SEVERE
Inhalation (rat) LC50: >4.178 mg/l/4h ^[2]	Eye: adverse effect observed (irritating) ^[1]
Oral (rat) LD50: 1230 mg/kg ^[2]	Skin (man): 16 mg/48h-mild
	Skin (rabbit):10 mg/24h open-mild
	Skin: no adverse effect observed (not irritating) ^[1]

diethylenetriamine

TOXICITY	IRRITATION
Dermal (rabbit) LD50: ~672 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
Oral (rat) LD50: =819-1430 mg/kg ^[2]	Skin (rabbit): 10 mg/24h - SEVERE
	Skin (rabbit):500 mg open moderate
	Skin: adverse effect observed (corrosive) ^[1]

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

2,4,6-TRIS[(DIMETHYLAMINO)METHYL]PHENOL

While it is difficult to generalise about the full range of potential health effects posed by exposure to the many different amine compounds, characterised by those used in the manufacture of polyurethane and polyisocyanurate foams, it is agreed that overexposure to the majority of these materials may cause adverse health effects.

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For benzyl alkyl alcohols: Unlike benzylic alcohols, the beta-hydroxyl group of the members of this cluster is For benzoates: Acute toxicity: Benzyl alcohol, benzoic acid and its sodium and potassium salt health, as they are all rapidly metabolised and excreted via a common pathway wit The material may cause skin irritation after prolonged or repeated exposure and A member or analogue of a group of benzyl derivatives generally regarded as sa flavouring substances in food; their rapid absorption. The aryl alkyl alcohols:			id and its sodium and potassium salt car nd excreted via a common pathway withir prolonged or repeated exposure and ma /I derivatives generally regarded as safe bsorption.	n be considered as a single category regarding human a 24 hrs. ay produce a contact dermatitis (nonallergic). (GRAS) based in part on their self-limiting properties as
Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the imparticular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to a bronchial asthma and atopic eczema (neurodermatitis) which is associated with increased IgE synthesis. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-me lymphocytes) may be involved. Handling ethyleneamine products is complicated by their tendency to react with other chemicals, such as carbon did results in the formation of solid carbamates. For alkyl polyamines: The alkyl polyamines cluster consists of organic compounds containing two terminal primary amine groups and at learning transport or the proposed and the group. Typically these substances are derivatives of ethylenediamine, propylenediamine or hexanediamine.		es to the manifestation of the immediate type. y an increased susceptibility to allergic rhinitis, allergic reased IgE synthesis. mplexes of the IgG type; cell-mediated reactions (T er chemicals, such as carbon dioxide in the air, which I primary amine groups and at least one secondary amine		
RESENE ARMOURBOND HAI TRIS[(DIMETHYLAMINO)METHYL & DIETHYLENE	2,4,6- L]PHENOL	Asthma-like symptoms may continue for months or even years after exposure to the material ceases.		
RESENE ARMOURBOND HAI BENZYL AI DIETHYLENE	LCOHOL &	The following information refers to contact allergens as a group and may not be specific to this product.		
RESENE ARMOURBOND HAI BENZYL	RDENER & ALCOHOL	Adverse reactions to fragrances in perfumes and in fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, photosensitivity, immediate contact reactions (contact urticaria), and pigmented contact dermatitis. Fragrance allergens act as haptens, i.e. low molecular weight chemicals that are immunogenic only when attached to a carrier protein.		
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & DIETHYLENETRIAMINE		The material may produce severe irritation The material may produce severe skin irrita		tion. re, and may produce a contact dermatitis (nonallergic).
Acute Toxicity	~		Carcinogenicity	~
Skin Irritation/Corrosion	~		Reproductivity	✓
Serious Eye Damage/Irritation	~		STOT - Single Exposure	✓
Respiratory or Skin sensitisation	~		STOT - Repeated Exposure	×
Mutagenicity	×		Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

RESENE ARMOURBOND	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
HARDENER	Not Available	Not Available		Not Available	Not Availabl	е	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURCE	
2,4,6- s[(dimethylamino)methyl]phenol	LC50	96	Fish	Fish		175mg/L	2
-[(EC50	72	Algae	e or other aquatic plan	its	2.8mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECI	ES		VALUE	SOURCE
	LC50	96	Fish			10mg/L	2
benzyl alcohol	EC50	48	Crustacea			230mg/L	2
	EC50	96	Algae or other aquatic plants			76.828mg/L	2
	NOEC	336	Fish			5.1mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPEC	IES		VALUE	SOURCE
	LC50	96	Fish			1-14mg/L	2
diethylenetriamine	EC50	48	Crusta	acea		=16mg/L	1
	EC50	72	Algae	or other aquatic plants	3	1-164mg/L	2
	NOEC	504	Crusta	acea		=5.6mg/L	1

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,4,6- tris[(dimethylamino)methyl]phenol	HIGH	HIGH
benzyl alcohol	LOW	LOW
diethylenetriamine	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.773)
benzyl alcohol	LOW (LogKOW = 1.1)
diethylenetriamine	LOW (BCF = 1.7)

Mobility in soil

Ingredient	Mobility
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (KOC = 15130)
benzyl alcohol	LOW (KOC = 15.66)
diethylenetriamine	LOW (KOC = 87.53)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

► Containers may still present a chemical hazard/ danger when empty.

Legislation addressing waste disposal requirements may differ by country, state and/or territory.

Product / Packaging disposal

▶ DO NOT allow wash water from cleaning or process equipment to enter drains

▶ Recycle wherever possible or consult manufacturer for recycling options.

Consult manufacturer for recycling option.

Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information. Or contact a Local Authority for the disposal information. Do not discharge the substance into the environment.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002680	Surface Coatings and Colourants (Combustible, Toxic [6.7]) Group Standard 2017

2,4,6-TRIS[(DIMETHYLAMINO)METHYL]PHENOL(90-72-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations
International Maritime Dangerous Goods Requirements (IMDG Code)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

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BENZYL ALCOHOL(100-51-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 3 Segregation requirements for dangerous goods

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 4 Quantity Limits for Dangerous Goods in Excepted Quantities

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

DIETHYLENETRIAMINE(111-40-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Air Transport Association (IATA) Dangerous Goods Regulations

International FOSFA List of Banned Immediate Previous Cargoes

International Maritime Dangerous Goods Requirements (IMDG Code)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AICS	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (benzyl alcohol; 2,4,6-tris[(dimethylamino)methyl]phenol; diethylenetriamine)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - ARIPS	Yes	
Thailand - TECI	Yes	
Legend:	Yes = All declared ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 OTHER INFORMATION

Revision Date	13/06/2019
Initial Date	13/06/2019

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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RESENE ARMOURBOND HARDENER

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