Resene Paints

Version No: 2.3 Safety Data Sheet according to HSNO Regulations Issue Date: 25/11/2019 Print Date: 25/11/2019 L.GHS.NZL.EN

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

Product Identifier

Product name	RESENE ARMOURCOTE 515 H.S. HARDENER	
Synonyms	Not Available	
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Other means of identification	Not Available	

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

Relevant identified uses	5856	

Details of the supplier of the safety data sheet

Registered company name	Resene Paints	
Address	PO Box 38242 Wellington Mail Centre Lower Hutt 5045 New Zealand	
Telephone	-64 4 577 0500	
Fax	+64 4 577 0600	
Website	www.resene.co.nz	
Email	advice@resene.co.nz	

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764 766	+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]	Flammable Liquid Category 3, Respiratory Sensitizer Category 1, Acute Toxicity (Dermal) Category 4, Specific target organ toxicity - single exposure Category 2, Serious Eye Damage Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Skin Sensitizer Category 1, Carcinogenicity Category 2, Chronic Aquatic Hazard Category 4, Acute Aquatic Hazard Category 2, Acute Vertebrate Hazard Category 3	
Legend:	1. Classified by Chernwatch; 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	3.1C, 6.1D (dermal), 6.1D (oral), 6.3A, 8.3A, 6.5A (respiratory), 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1D, 9.3C	

Label elements

|--|

DANGER

SIGNAL WORD

Hazard statement(s)

H226	Flammable liquid and vapour.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H312	armful in contact with skin.	
H371	ay cause damage to organs. (Not specified) (Oral, Dermal, Inhalation)	
H318	causes serious eye damage.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H361	Suspected of damaging fertility or the unborn child.	

H317	May cause an allergic skin reaction.	
H351	Suspected of causing cancer.	
H413	May cause long lasting harmful effects to aquatic life.	
H401	Toxic to aquatic life.	
H433	Harmful to terrestrial vertebrates.	

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P260	Do not breathe mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P284	[In case of inadequate ventilation] wear respiratory protection.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER/doctor/physician/first aider.		
P321	Specific treatment (see advice on this label).		
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.		
P370+P378	In 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.		
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P330	Rinse mouth.		

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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	1-3	2.4.6-tris[(dimethylamino)methyl]phenol
1330-20-7	10-20	xylene
71-36-3	1-10	n-butanol
100-41-4	1-5	ethylbenzene
107-15-3	0.1-1	ethylenediamine

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact

	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing for at least 15 minutes. Transport to hospital or doctor without delay in event of irritation. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Transport to hospital, or doctor 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 spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. 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

Extinguishing media

Alcohol stable 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	Liquid and vapour are flammable. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material.

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	Remove all ignition sources. 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	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 Con

► Containers, even those that have been emptied, may contain explosive vapours.

	 Electrostatic discharge may be generated during pumping - this may result in fire. 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 in approved flammable liquid storage area.
Conditions for safe storage, in	cluding any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	► may ignite with strong oxidisers

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene (see Xylene)	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 150 mg/m3	(skin) - Skin absorption
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	100 ppm / 434 mg/m3	543 mg/m3 / 125 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylenediamine	Ethylenediamine (1,2-Diaminoethane)	10 ppm / 25 mg/m3	Not Available	Not Available	(skin) - Skin absorption; (sen) - Sensitiser

EMERGENCY LIMITS

Ingredient	Material name	TEE	:L-1	TEEL-2	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
xylene	Xylenes	Not	Available	Not Available	Not Available
n-butanol	Butyl alcohol, n-; (n-Butanol)	60 p	pm	800 ppm	8000 ppm
ethylbenzene	Ethyl benzene	Not Available		Not Available	Not Available
ethylenediamine	Ethylenediamine, 1,2-	0.88 ppm		Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH		
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available		Not Available		
xylene	900 ppm		Not Available		
n-butanol	1,400 ppm		Not Available		
ethylbenzene	800 ppm		Not Available		
ethylenediamine	1,000 ppm		Not Available		

MATERIAL DATA

IFRA Prohibited Fragrance Substance

The International Fragrance Association (IFRA) Standards form the basis for the globally accepted and recognized risk management system for the safe use of fragrance ingredients and are part of the IFRA Code of Practice.

for xylenes:

IDLH Level: 900 ppm

Odour Threshold Value: 20 ppm (detection), 40 ppm (recognition)

NOTE: Detector tubes for o-xylene, measuring in excess of 10 ppm, are available commercially.

For n-butanol:

Odour Threshold Value: 0.12-3.4 ppm (detection), 1.0-3.5 ppm (recognition)

NOTE: Detector tubes for n-butanol, measuring in excess of 5 ppm are commercially available.

for ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

NOTE: Detector tubes for ethylbenzene, measuring in excess of 30 ppm, are commercially available.

for ethylenediamine:

Based on a dietary study with rats in which no adverse effects were observed at 23 mg/kg/day free base and the no observed effects in rats exposed by inhalation at 59 ppm, the recommended TLV-TWA is thought to provide sufficient margin of safety.

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.

Issue Date: 25/11/2019 Print Date: 25/11/2019

RESENE ARMOURCOTE 515 H.S. HARDENER

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. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.

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:

RESENE ARMOURCOTE 515 H.S. HARDENER

Material	CPI
TEFLON	A
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	C
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	C
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
VITON	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 '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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Viscous liquid with solvent odour			
	1		1	
Physical state	Liquid	Relative density (Water = 1)	0.98	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	456	
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)	132	Molecular weight (g/mol)	Not Available	
Flash point (°C)	28	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Flammable.	Oxidising properties	Not Available	

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

^ - Full-face

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)

Upper Explosive Limit (%)	8.7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.2	Volatile Component (%vol)	39
Vapour pressure (kPa)	0.6	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.4	VOC g/L	332

SECTION 10 STABILITY AND REACTIVITY

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 toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination			
Ingestion	Str ter Eff Sw pn	Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing. Effects on the nervous system characterise over-exposure to higher aliphatic alcohols. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result.		
Skin Contact	Th To: Op En Th	The material may accentuate any pre-existing dermatitis condition Toxic effects may result from skin 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. The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either produces significant, but moderate, 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.		
Eye	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. Workers exposed to 200 ppm n-butanol showed ocular symptoms including corneal inflammation, burning sensation, blurring of vision, lachrymation, and photophobia. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis.			
Chronic	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. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Inhalation of epoxy resin amine hardener vapours (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting days after cessation of the exposure.			
RESENE ARMOURCOTE 515 H. HARDENE	S. R	Not Available		Not Available
2,4, tris[(dimethylamino)methyl]phen	6- ol	TOXICITY dermal (rat) LD50: >973 mg/kg ^[1] Inhalation (rat) LC50: >0.125 mg//1hr.] ^[2] Oral (rat) LD50: 1200 mg/kg ^[2]	IRRITA Eye (ra Eye: ac Skin (ra	ATION abbit): 0.05 mg/24h - SEVERE dverse effect observed (irreversible damage) ^[1] abbit): 2 mg/24h - SEVERE dverse effect observed (corrosive) ^[1]
			SKIII. a	

	TOXICITY	IRRITATION
xylene	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant
xylone	Inhalation (rat) LC50: 4994.295 mg/l/4h ^[2]	Eye (rabbit): 5 mg/24h SEVERE

	Oral (rat) LD50: 3523-8700 mg/kg ^[2]		Eye (rabbit): 87 mg mild
			Eye: adverse effect observed (irritating) ^[1]
			Skin (rabbit):500 mg/24h moderate
			Skin: adverse effect observed (irritating) ^[1]
	ΤΟΧΙCΙΤΥ	IRRITATI	ON
	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Eye (hum	an): 50 ppm - irritant
	Inhalation (rat) LC50: 24 mg/l/4H ^[2]	Eye (rabb	bit): 1.6 mg-SEVERE
n-butanol	Oral (rat) LD50: 790 mg/kg ^[2]	Eye (rabb	bit): 24 mg/24h-SEVERE
		Eye: adve	erse effect observed (irreversible damage) ^[1]
		Skin (rabl	bit): 405 mg/24h-moderate
		Skin: adv	erse effect observed (irritating) ^[1]
	TOXICITY	IR	RRITATION
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	E	ye (rabbit): 500 mg - SEVERE
ethylbenzene	Inhalation (mouse) LC50: 17.75 mg/l/2H ^[2]	E	ye: no adverse effect observed (not irritating) ^[1]
	Oral (rat) LD50: 3500 mg/kg ^[2]	S	kin (rabbit): 15 mg/24h mild
		S	kin: no adverse effect observed (not irritating) ^[1]
	TOXICITY		IRRITATION
	Dermal (rabbit) LD50: =560 mg/kg ^[2]		Eye (rabbit):0.67 mg SEVERE
ethylenediamine	Inhalation (mouse) LC50: 0.3 mg/l/4h ^[2]		Eye (rabbit):0.75mg/24h SEVERE
	Oral (rat) LD50: 500 mg/kg ^[2]		Skin(rabbit):10 mg/24h open SEVERE
			Skin(rabbit):450 mg open moderate
Legend: 1.	Value obtained from Europe ECHA Registered Substa pecified data extracted from RTECS - Register of Toxic	ances - Acute tox	kicity 2.* Value obtained from manufacturer's SDS. Unless otherwise al 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. No significant acute toxicological data identified in literature search.
XYLENE	Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.
N-BUTANOL	for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.
ETHYLBENZENE	Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.
ETHYLENEDIAMINE	Acute toxicity of ethylenediamine (LD50, rat, oral range from 637 mg/kg to 1850 mg/kg; LC50, rat, inhalation >29 mg/l and LD50, rabbit, dermal 560 mg/kg) is considered to be low to moderate. Acute toxicity of ethylenediamine (LD50, rat, oral range from 637 mg/kg to 1850 mg/kg; LC50, rat, inhalation >29 mg/l and LD50, rabbit, dermal 560 mg/kg) is considered to be low to moderate.
RESENE ARMOURCOTE 515 H.S. HARDENER & ETHYLENEDIAMINE	Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic 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-mediated reactions (T lymphocytes) may be involved. The following information refers to contact allergens as a group and may not be specific to this product.
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & XYLENE & N-BUTANOL & ETHYLBENZENE & ETHYLENEDIAMINE	The material may produce severe irritation to the eye causing pronounced inflammation.
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & ETHYLENEDIAMINE	The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic).
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & N-BUTANOL & ETHYLENEDIAMINE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases.

XYLENE & N-BI ETHYL	JTANOL & BENZENE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallerg	
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: Y – Data either n	ot available or does not fill the criteria for classification

Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

1

SENE ARMOURCOTE 515 H.S.	ENDPOINT	TEST DURATION (HR)	SPEC	IES	VALUE	SOURC	
HARDENER	Not Available	Not Available	Not Av	vailable	Not Available	N	lot Available
	ENDPOINT	TEST DURATION (HR)	SPECIES		V	ALUE	SOURCE
2,4,6-	LC50	96	Fish		1	75mg/L	2
(dimetriyiamino)metriyi]phenoi	EC50	72	Algae or othe	er aquatic plant	s 2	.8mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		V	ALUE	SOURCE
	LC50	96	Fish		2.	6mg/L	2
xylene	EC50	48	Crustacea		1.	8mg/L	2
	EC50	72	Algae or othe	er aquatic plants	s 3.	2mg/L	2
	NOEC	73	Algae or othe	er aquatic plants	s 0.	44mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VA	LUE	SOURCE
	LC50	96	Fish		1-3	76mg/L	2
	EC50	48	Crustacea		1-3	28mg/L	2
n-butanol	EC50	96	Algae or other aquatic plants		225	img/L	2
	BCF	24	Fish		921	mg/L	4
	EC0	48	Crustacea		1-2	60mg/L	2
	NOEC	504	Crustacea		4.1	mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VAL	UE	SOURCE
	LC50	96	Fish		0.00	43mg/L	4
ethylbenzene	EC50	48	Crustacea		1.18	4mg/L	4
	EC50	96	Algae or other aquatic plants		3.6m	ng/L	4
	NOEC	168	Crustacea		0.96	mg/L	5
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALL	IF	SOURCI
		96	Eich		1-54	/⊑ I 7ma/l	2
ethylenediamine	EC50	48	Crustacea		3mg/		1
caryienediamine	EC50	96	Algae or other	aquatic plants	61mc	 ı/l	1
	NOEC	504	Crustacea		0.16r	ng/L	4
	1		1		I	-	

Toxic 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
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)

n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
ethylenediamine	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.773)
xylene	MEDIUM (BCF = 740)
n-butanol	LOW (BCF = 0.64)
ethylbenzene	LOW (BCF = 79.43)
ethylenediamine	LOW (BCF = 0.07)

Mobility in soil

Ingredient	Mobility
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (KOC = 15130)
n-butanol	MEDIUM (KOC = 2.443)
ethylbenzene	LOW (KOC = 517.8)
ethylenediamine	LOW (KOC = 24.72)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. DO NOT allow wash water from cleaning or process equipment to enter drains. Recycle wherever possible. 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	•3Y

Land transport (UN)

UN number	1263		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions163; 223; 367Limited quantity5 L		

Air transport (ICAO-IATA / DGR)

UN number 1263

UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Cargo Only Packing In Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo Passenger and Cargo	astructions Qty / Pack Packing Instructions Maximum Qty / Pack Limited Quantity Packing Instructions Limited Maximum Qty / Pack	A3 A72 A192 366 220 L 355 60 L Y344 10 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1263		
UN proper shipping name	- PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 223 367 955Limited Quantities5 L		

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 u	sing the conditions specified in an applicable Group Star	ndard	
HSR Number	Group Standard		
HSR002669	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017	
2,4,6-TRIS[(DIMETHYLAMINO)ME	THYL]PHENOL IS FOUND ON THE FOLLOWING REG	GULATORY LISTS	
International Air Transport Association (IATA) Dangerous Goods Regulations		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
New Zealand Hazardous Substanc	es and New Organisms (HSNO) Act - Classification	New Zealand Inventory of Chemicals (NZIoC)	
of Chemicals		United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	
XYLENE IS FOUND ON THE FOLI	LOWING REGULATORY LISTS		
GESAMP/EHS Composite List - GESAMP Hazard Profiles		International Maritime Dangerous Goods Requirements (IMDG Code)	
IMO IBC Code Chapter 17: Summa	ary of minimum requirements	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk		of Chemicals	
IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
safety hazards		New Zealand Inventory of Chemicals (NZIoC)	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC		New Zealand Workplace Exposure Standards (WES)	
Monographs		United Nations Recommendations on the Transport of Dangerous Goods Model	
International Air Transport Associat	ion (IATA) Dangerous Goods Regulations	Regulations	
N-BUTANOL IS FOUND ON THE F	OLLOWING REGULATORY LISTS		
GESAMP/EHS Composite List - GESAMP Hazard Profiles		International Maritime Dangerous Goods Requirements (IMDG Code)	
IMO IBC Code Chapter 17: Summary of minimum requirements		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	
IMO IBC Code Chapter 18: List of products to which the Code does not apply		of Chemicals	
IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
products		New Zealand Inventory of Chemicals (NZIoC)	
International Air Transport Associat	ion (IATA) Dangerous Goods Regulations	New Zealand Workplace Exposure Standards (WES)	
·		United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	

ETHYLBENZENE IS FOUND ON THE FOLLOWING REGULATORY LISTS	
GESAMP/EHS Composite List - GESAMP Hazard Profiles	International Maritime Dangerous Goods Requirements (IMDG Code)
IMO IBC Code Chapter 17: Summary of minimum requirements	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	of Chemicals
IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures	New Zealand Inventory of Chemicals (NZIoC)
containing at least 99% by weight of components already assessed by IMO, presenting	New Zealand Workplace Exposure Standards (WES)
safety hazards	United Nations Recommendations on the Transport of Dangerous Goods Model
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	Regulations
International Air Transport Association (IATA) Dangerous Goods Regulations	
ETHYLENEDIAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS	
GESAMP/EHS Composite List - GESAMP Hazard Profiles	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
IMO IBC Code Chapter 17: Summary of minimum requirements	of Chemicals
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
International Air Transport Association (IATA) Dangerous Goods Regulations	of Chemicals - Classification Data
International FOSFA List of Banned Immediate Previous Cargoes	New Zealand Inventory of Chemicals (NZIoC)
International Maritime Dangerous Goods Requirements (IMDG Code)	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
3.1C	500 L in containers greater than 5 L 1500 L in containers up to and including 5 L	250 L 250 L

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
New Zealand - NZIoC	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	25/11/2019
Initial Date	21/12/2015

SDS Version Summary

Version	Issue Date	Sections Updated
1.3.1.1.1	25/11/2019	Ingredients

Other information

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

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

Powered by AuthorITe, from Chemwatch.