RESENE ARMOURCOTE 510 LT HARDENER

Resene Paints Ltd

Version No: 1.2

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 23/02/2023 Print Date: 23/02/2023 L.GHS.NZL.EN

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

Product Identifier	
Product name	RESENE ARMOURCOTE 510 LT HARDENER
Synonyms	Not Available
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains nonylphenol)
Other means of identification	Not Available

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

Relevant identified uses 8786

Details of the manufacturer or 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	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Flammable Liquids Category 4, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1, Carcinogenicity Category 2
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, 6.1D (oral), 6.3A, 8.3A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1B

Label elements

Hazard pictogram(s)









Signal word

Hazard statement(s)

H411	Toxic to aquatic life with long lasting effects.
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H227	Combustible liquid.
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.

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H351 Suspected of causing cancer.

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.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P330	Rinse mouth.

Precautionary statement(s) Storage

P403	Store in a well-ventilated place.
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.
1 301	biopose of contents/container to authorised hazardous of special waste content 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, EPA consolidation 30 April 2021 to be identified:

Mixtures

CAS No	%[weight]	Name
90-72-2	0.1-1	2.4.6-tris[(dimethylamino)methyl]phenol
100-51-6	5-15	benzyl alcohol
1330-20-7	1-10	xylene
100-41-4	1-5	ethylbenzene
84852-15-3	1-10	nonylphenol
71-36-3	1-5	<u>n-butanol</u>
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

Description of first and 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 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 fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	

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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

► Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

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. WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.			

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	Environmental hazard - contain spillage. Remove all ignition sources. Contain spill with inert non- combustible absorbent then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Environmental hazard - contain spillage. 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

Conditions for safe storage, including any incompatibilities

Suitable container	Packaging as recommended by manufacturer.
Storage incompatibility	 strong oxidisers attack some plastics, rubber and coatings

SECTION 8 Exposure controls / personal protection

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Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 150 mg/m3	(skin) - Skin absorption

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
2,4,6- tris[(dimethylamino)methyl]phenol	6.5 mg/m3	72 mg/m3	430 mg/m3
benzyl alcohol	30 ppm	52 ppm	740 ppm
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available
nonylphenol	3.9 mg/m3	43 mg/m3	260 mg/m3
n-butanol	60 ppm	800 ppm	8000** ppm

Ingredient	Original IDLH	Revised IDLH
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available	Not Available
benzyl alcohol	Not Available	Not Available
xylene	900 ppm	Not Available
ethylbenzene	800 ppm	Not Available
nonylphenol	Not Available	Not Available
n-butanol	1,400 ppm	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
benzyl alcohol	Е	≤ 0.1 ppm	
nonylphenol	Е	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

MATERIAL DATA

Fragrance substance with is an established contact allergen in humans.

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.

IFRA Restricted 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.

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

 $\label{thm:constraint} \text{Exposed individuals are \textbf{NOT}} \ \text{reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.}$

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 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 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.

Exposure controls

Appropriate engineering controls Individual protection measures, such as personal protective equipment Eye and face protection Skin protection Skin protection See Hand protection below

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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	Overalls
Respiratory protection	Respiratory protection required in insufficiently ventilated working areas and during spraying. An approved respirator with a replaceable vapour/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to AS/NZS 1715 Standard, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 Standard, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Recommended filter type: Type A filter (organic vapour).

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties				
Appearance	Off white dispersion			
Physical state	Liquid	Relative density (Water = 1)	1.34-1.40	
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 (°C)	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	>110	Molecular weight (g/mol)	Not Available	
Flash point (°C)	80	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)	10	
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	128	

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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

Inhalation of vapours may cause drowsiness and dizziness.

Inhaled

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
Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea,

anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.

The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression.

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	Inhalation of benzyl alcohol may affect respiration (paralysis of the respiratory center, respiratory depression, gasping respirations), cardiovascular system (hypotension				
	Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common sym of xylene overexposure. Xylene is a central nervous system depressant.				
Ingestion	Ingestion of large doses of benzyl alcohol may cause abdominal pain, nausea, vomiting, diarrhea. Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.				
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 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.				
Eye	When applied to the eye(s) of animals, the m	naterial produces severe oc	cular lesions which are present twenty-four hours or more after instillation.		
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. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in impaired fertility on the basis of: -clear evidence in animal studies 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 is not a secondary non-specific consequence of other toxic effects. Prolonged or repeated exposure to benzyl alcohol may cause allergic contact dermatitis. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.				
	TOWNEY		IDDITATION		
RESENE ARMOURCOTE 510 HARDENE			IRRITATION Not Available		
2,4, tris[(dimethylamino)methyl]phen	Oral (Rat) LD50: 1200 mg/kg ^[2] Eye: adverse effect obse		mg/24h - SEVERE [Rohm & Haas, Henkel]* [Ciba] tt observed (irreversible damage) ^[1] /24h - SEVERE ct observed (corrosive) ^[1]		
		<u> </u>			
	TOXICITY	IR	RITATION		
	Dermal (rabbit) LD50: 2000 mg/kg ^[2]	Ey	Eye (rabbit): 0.75 mg open SEVERE		
benzyl alcoh	Inhalation(Rat) LC50: >4.178 mg/L4h ^[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]		
	TOXICITY		IRRITATION		
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]		Eye (human): 200 ppm irritant		
	Inhalation(Rat) LC50: 5000 ppm4h ^[2]		Eye (rabbit): 5 mg/24h SEVERE		
xyle	Oral (Mouse) LD50; 2119 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]		
	TOXICITY	IDD	ITATION		
	Dermal (rabbit) LD50: 17800 mg/kg ^[2]		IRRITATION Eye (rabbit): 500 mg - SEVERE		
ethylbenze	rol		Eye: no adverse effect observed (not irritating) ^[1]		
Gulyibelize			Eye: no adverse effect observed (not irritating) ¹⁻¹ Skin (rabbit): 15 mg/24h mild		
	Oral (Rat) I D50: 3500 mg/kg[2]	Skir	n (rabbit): 15 mg/24h mild		
	Oral (Rat) LD50: 3500 mg/kg ^[2]		n (rabbit): 15 mg/24h mild n: no adverse effect observed (not irritating)[1]		

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	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 0.5 mg (open)-SEVERE		
	Oral (Rat) LD50: 1000-2500 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]		
nonylphenol		Skin (rabbit): 500 mg(open)-mod		
		Skin(rabbit):10mg/24h(open)-SEVERE		
		Skin: adverse effect observed (corrosive)[1]		
	TOXICITY	IRRITATION		
-	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Eye (human): 50 ppm - irritant		
n hutanal	Inhalation(Rat) LC50: 8000 ppm4h ^[2]	Eye (rabbit): 1.6 mg-SEVERE		
n-butanol	Oral (Rat) LD50: 790 mg/kg ^[2]	Eye (rabbit): 24 mg/24h-SEVERE		
		Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 405 mg/24h-moderate		
		Skin: adverse effect observed (irritating) ^[1]		
	alue obtained from Europe ECHA Registered ified data extracted from RTECS - Register of	d Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise of Toxic Effect of chemical Substances		
RESENE ARMOURCOTE 510 HARDEN	Data demonstrate that during inhala	ation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.		
2, TRIS[(DIMETHYLAMINO)METHYL]PHEN	compounds, characterised by those overexposure to the majority of thes Many amine-based compounds effects, including bronchoconstr Systemic symptoms include hea	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. In Many amine-based compounds can induce histamine liberation, which, in turn, can trigger allergic and other physiological effects, including bronchoconstriction or bronchial asthma and rhinitis. Systemic symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, tachycardia (rapid heartbeat), itching, erythema (reddening of the skin), urticaria (hives), and facial edema (swelling). No significant acute toxicological data identified in literature search.		
BENZYL ALCOH	For benzoates: Acute toxicity: Benzyl alcohol, ben human health, as they are all rapidly A member or analogue of a group of properties as flavouring substances. IOL The aryl alkyl alcohol (AAA) fragrancy profiles. The AAA fragrances demonstrate lo At concentrations likely to be encoun. The potential for eye irritation is min With the exception of benzyl alcohol	Acute toxicity: Benzyl alcohol, benzoic acid and its sodium and potassium salt can be considered as a single category regarding human health, as they are all rapidly metabolised and excreted via a common pathway within 24 hrs. A member or analogue of a group of benzyl derivatives generally regarded as safe (GRAS) based in part on their self-limiting properties as flavouring substances in food; their rapid absorption. The aryl alkyl alcohol (AAA) fragrance ingredients are a diverse group of chemical structures with similar metabolic and toxicity profiles. The AAA fragrances demonstrate low acute and subchronic dermal and oral toxicity. At concentrations likely to be encountered by consumers, AAA fragrance ingredients are non-irritating to the skin. The potential for eye irritation is minimal. With the exception of benzyl alcohol and to a lesser extent phenethyl and 2-phenoxyethyl AAA alcohols, human sensitization studies, diagnostic patch tests and human induction studies, indicate that AAA fragrance ingredients generally have no or low		
XYLE	NOT classifiable as to its carcinoger	Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.		
ETHYLBENZE	recorded. Ethylbenzene is readily absorbed fo primarily through urine.	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 o		
	WARNING: This substance has bee	en classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
For nonylphenol and its compounds: Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. for alkylphenolics category: The alkylphenolics may be divided into three groups. Group I: ortho-substituted mono-alkylphenols: Group II para-substituted mono-alkylphenols Group III: di- and tri-substituted mixed alkyl phenols The subdivision of the category alkylphenols into ortho, para and the di/tri-substituted mixed members is supported by published investigations. for nonylphenol: Nonylphenol was studied for oral toxicity in rats in a 28-day repeat dose toxicity test at doses of 0, 4, 15, 60 and 250 re				
N-BUTAN	for n-butanol Acute toxicity: n-Butanol (BA) was	s only slightly toyic to experimental enimals following souts and dormal or inhalation expenses		
RESENE ARMOURCOTE 510 HARDENER & BENZYL ALCOH	Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation expose The following information refers to contact allergens as a group and may not be specific to this product. Adverse reactions to fragrances in perfumes and in fragranced cosmetic products include allergic contact dermatitis, irritant codermatitis, photosensitivity, immediate contact reactions (contact uticaria), and nigmented contact dermatitis.			

protein.

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2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & XYLENE & ETHYLBENZENE & NONYLPHENOL & N-BUTANOL		The material may produce severe irritation	on to the eye causing pronounced infla	ammation.
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & NONYLPHENOL The material may produce severe sign (nonallergic).			ritation after prolonged or repeated ex	posure, and may produce a contact dermatitis
2,4,6- TRIS[(DIMETHYLAMINO)METHYL]PHENOL & NONYLPHENOL & N-BUTANOL Asthma-like symptoms may co		Asthma-like symptoms may continue for	months or even years after exposure	to the material ends.
	BENZYL ALCOHOL & XYLENE & The material may caus		er prolonged or repeated exposure ar	nd may produce a contact dermatitis (nonallergic).
Acute Toxicity	~		Carcinogenicity	~
Skin Irritation/Corrosion	~		Reproductivity	✓
Serious Eye Damage/Irritation	mage/Irritation 💙		STOT - Single Exposure	×
Respiratory or Skin sensitisation	•		STOT - Repeated Exposure	✓
Mutagenicity	Mutagenicity X		Aspiration Hazard	×

Legend:

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

SECTION 12 Ecological information

cicity	1							
RESENE ARMOURCOTE 510 LT	Endpoint	Test Duration (hr)		Species	Value		Source	
HARDENER	Not Available	Not Available		Not Available	Not Availa	ble	Not Availa	able
	Endpoint	Test Duration (hr)	Specie	s		Value	Source)
	EC50(ECx)	24h	Crustad	cea		280mg/l	Not Ava	ailable
2,4,6- ris[(dimethylamino)methyl]phenol	EC50	72h	Algae o	or other aquatic plants		2.8mg/l	2	
., ., ., ., .,	EC50	48h	Crustad	cea		>100mg/l	2	
	LC50	96h	Fish			1000mg/l	Not Ava	ailable
	Endpoint	Test Duration (hr)	Spe	cies		Value		Source
	LC50	96h	Fish	ı		10mg/l		4
Land de la destada	EC50	72h	Alga	Algae or other aquatic plants		500mg/l		2
benzyl alcohol	EC50	48h	48h Crustacea		230mg/l		2	
	NOEC(ECx)	336h	Fish	Fish 5.1mg/l			2	
	EC50	96h	Alga	ae or other aquatic plan	ts	76.828m	ıg/l	2
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
	LC50	96h	Fis	sh		2.6mg	g/l	2
xylene	EC50	72h	Alç	gae or other aquatic pla	ints	4.6mg	g/l	2
	EC50	48h		Crustacea		1.8mg	g/l	2
	NOEC(ECx)	73h	Alç	gae or other aquatic pla	ints	0.44n	ng/I	2
	Endpoint	Test Duration (hr)	Species	ì	V	'alue		Source
	LC50	96h	Fish		3	.381-4.075mg	/L	4
	EC50	72h	Algae or	other aquatic plants	2	.4-9.8mg/l		4
ethylbenzene	EC50	48h	Crustace	ea	1	.37-4.4mg/l		4
	EC50(ECx)	24h	Algae or	other aquatic plants	0	.02-938mg/l		4
	EC50	96h	Algae or	other aquatic plants	1	.7-7.6mg/l		4
	Endpoint	Test Duration (hr)	Specie	es		Value		Source

Endpoint	Test Duration (hr)	Species	Value	Source
BCF	1344h	Fish	90-220	7
NOEC(ECx)	672h	Crustacea	0.0039mg/l	1
EC50	72h	Algae or other aquatic plants	0.056mg/l	4
EC50	96h	Algae or other aquatic plants	0.027mg/l	1
LC50	96h	Fish	0.098-0.187mg/l	4
EC50	48h	Crustacea	0.14mg/l	1

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n-butanol

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	504h	Crustacea	4.1mg/l	2
EC50	96h	Algae or other aquatic plants	225mg/l	2
EC50	72h	Algae or other aquatic plants	>500mg/l	1
LC50	96h	Fish	100-500mg/l	4
EC50	48h	Crustacea	>500mg/l	1

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 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

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

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.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

For Xylenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

For benzyl alcohol: log Kow : 1.1 Koc : <5

Henry's atm m3 /mol: 3.91E-07 BOD 5: 1.55-1.6,33-62%

COD: 96% ThOD: 2.519 BCF: 4

Bioaccumulation : not significant Anaerobic effects : significant degradation

Effects on algae and plankton: inhibits degradation of glucose

Degradation Biological: significant processes Abiotic: RxnOH*,no photochem

Ecotoxicity

Fish LC50 (48 h): fathead minnow 770 mg/l; (72 h): 480 mg/l; (96 h) 460 mg/l

Fish LC50 (96 h) fathead minnow 10 ppm, bluegill sunfish 15 ppm; tidewater silverside fish 15 ppm Products of Biodegradation: Possibly hazardous short term degradation products are not likely.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,4,6- tris[(dimethylamino)methyl]phenol	нівн	HIGH
benzyl alcohol	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
nonylphenol	HIGH	HIGH
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.773)
benzyl alcohol	LOW (LogKOW = 1.1)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
nonylphenol	LOW (BCF = 271)
n-butanol	LOW (BCF = 0.64)

Mobility in soil

Ingredient	Mobility
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (KOC = 15130)
benzyl alcohol	LOW (KOC = 15.66)
ethylbenzene	LOW (KOC = 517.8)
nonylphenol	LOW (KOC = 56010)
n-butanol	MEDIUM (KOC = 2.443)

SECTION 13 Disposal considerations

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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 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.

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.

Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses. It may be necessary to collect all wash water for treatment before disposal. The generation of waste should be avoided or minimised wherever possible.

Disposal of this product should comply with Hazard Substances (Disposal) Notice 2017 (EPA Consolidation 30 April 2021) and local regulations.

The substance can be treated by deposition in a landfill, incinerator, or sewage facility that changes the characteristics of its composition, so that the substance is no longer a hazardous material. It can be also exported from New Zealand as waste. Treatment by dilution with other matter does not apply to bioaccumulative and not rapidly degradable substances.

For treating and discharging processes contact your local authority.

The substance may be discharged onto a landfill, but only if a concentration of the substance in an environmental medium below the exposure limit set by the Local Authority.

SECTION 14 Transport information

Labels Required



Marine Pollutant



•37

HAZCHEM

Land transport (UN)

UN number or ID number	0082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains nonylphenol)		
Transport hazard class(es)	Class 9 Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions 274; 331; 335; 375 Limited quantity 5 L		

Air transport (ICAO-IATA / DGR)

UN number	3082			
UN proper shipping name	Environmentally hazardo	Environmentally hazardous substance, liquid, n.o.s. (contains nonylphenol)		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	9 Not Applicable 9L		
Packing group	III			
Environmental hazard	Environmentally hazardo	Environmentally hazardous		
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A97 A158 A197 A215 964 450 L 964 450 L Y964 30 kg G	

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Sea transport (IMDG-Code / GGVSee)

UN number	3082			
UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains nonylphenol)		
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk N	O Not Applicable		
Packing group				
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-F 274 335 969 5 L		

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

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

•	
Product name	Group
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
benzyl alcohol	Not Available
xylene	Not Available
ethylbenzene	Not Available
nonylphenol	Not Available
n-butanol	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
benzyl alcohol	Not Available
xylene	Not Available
ethylbenzene	Not Available
nonylphenol	Not Available
n-butanol	Not Available

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 Carcinogenic Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

2,4,6-tris[(dimethylamino)methyl]phenol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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 Hazardous Substances and New Organisms (HSNO) Act - Classification

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Inventory of Chemicals (NZIoC)

of Chemicals - Classification Data

benzyl alcohol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

New Zealand Approved Hazardous Substances with controls

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)

ethylbenzene is found on the following regulatory lists

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Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs - Group 2B: Possibly carcinogenic to humans

New Zealand Approved Hazardous Substances with controls

nonylphenol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List New Zealand Approved Hazardous Substances with controls

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

of Chemicals

n-butanol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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 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)

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Hazardous Substance Location

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

Hazard Class	Quantities
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

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	
3.1C or 3.1D				10 L

Tracking Requirements

Not Applicable

National Inventory Status

Mational inventory otatas	
National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	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. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	23/02/2023
Initial Date	18/09/2018

SDS Version Summary

Version	Date of Update	Sections Updated
0.2	22/02/2023	Exposure controls / personal protection - Exposure Standard, Composition / information on ingredients - Ingredients, Physical and chemical properties - Physical Properties

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.

Definitions and abbreviations

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

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ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

NDSL: Non-Domestic Substances List
IECSC: Inventory of Existing Chemical Substance in China
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
NLP: No-Longer Polymers
ENCS: Existing and New Chemical Substances Inventory
KECI: Korea Existing Chemicals Inventory
NZIOC: New Zealand Inventory of Chemicals
PICCS: Philippine Inventory of Chemicals and Chemical Substances
TSCA: Toxic Substances Control Act

TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory
FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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