Resene Paints LTD Version No: 6.13

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

Issue Date: 11/03/2024 Print Date: 11/03/2024 L.GHS.NZL.EN

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

Product Identifier	
Product name	RESENE ARMOURBOND BASE
Synonyms	Not Available
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glycidyl neodecanoate, phenol/ formaldehyde glycidyl ether copolymer and bisphenol A diglycidyl ether polymer)
Other means of identification	Not Available

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

Relevant identified uses	9343
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints LTD
Address	32-50 Vogel Street Wellington 5011 New Zealand
Telephone	+64 4 5770500
Fax	+64 4 5773327
Website	www.resene.co.nz
Email	advice@resene.co.nz

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7days)	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]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
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	6.1D (oral), 6.3A, 6.4A, 6.5B (contact), 9.1B

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P261	Avoid breathing mist/vapours/spray.
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

· · · · · · · · · · · · · · · · · · ·	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF 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.
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

Not Applicable

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

Mixtures

CAS No	%[weight]	Name
26761-45-5	10-20	glycidyl neodecanoate
9003-36-5	15-25	phenol/ formaldehyde glycidyl ether copolymer
25068-38-6	20-50	bisphenol A diglycidyl ether polymer
100-51-6	10-20	benzyl alcohol
Legend:	1. Classified by Chernwatch; 2. 4. Classification drawn from C&	Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; L; * EU IOELVs available

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 or hair contact occurs: 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.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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.

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.	
Fire/Explosion Hazard	 Non combustible. Burning release: carbon dioxide (CO2) aldehydes 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	Environmental hazard. Contain spill with sawdust or sand then place in suitable container for disposal. Clean area with solvents and large quantity of water to complete clean- up.
Major Spills	Environmental hazard. Contain spill with sawdust or sand then place in suitable container for disposal. Clean area with solvents and large quantity of water to complete clean- up. Clean contaminated objects and areas thoroughly observing environmental regulations. If the product contaminates waterways, inform competent authorities in accordance with local regulations.

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	► 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)	bisphenol A diglycidyl ether polymer	dyl ether Inhalable dust (not otherwise classified)			10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	bisphenol A diglycidyl ether polymer	Respirable dust (not otherwise classified)			3 mg/m3	Not Available	Not Available	Not Available
Emergency Limits								
Ingredient	TEEL-1		TEEL-2			TEEL-3		
bisphenol A diglycidyl ether polymer	90 mg/m3 990 mg/m3		5,900 mg/m3					
benzyl alcohol	30 ppm	30 ppm 52 ppm			740 ppm			
Ingredient	Original IDLH			Revis	ed IDLH			
glycidyl neodecanoate	Not Available		Not A	vailable				
phenol/ formaldehyde glycidyl ether copolymer	Not Available		Not Available					
bisphenol A diglycidyl ether polymer	Not Available		Not A	vailable				
benzyl alcohol	Not Available		Not A	vailable				
Occupational Exposure Banding								
Ingredient	Ingredient Occupational Exposure Band Rating			Occ	upational Ex	posure Band Lir	nit	
glycidyl neodecanoate	E			≤ 0.1 ppm				

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
phenol/ formaldehyde glycidyl ether copolymer	E	≤ 0.1 ppm		
benzyl alcohol	E	≤ 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

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat.

Glycidol causes ocular, upper respiratory tract and skin irritation.

Fragrance substance with is an established contact allergen in humans.

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.

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

For epichlorohydrin

Odour Threshold Value: 0.08 ppm

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

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.					
Individual protection measures, such as personal protective equipment						
Eye and face protection	Safety glasses with side shields.					
Skin protection	See Hand protection below					
Hands/feet protection	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. When handling liquid-grade epoxy resins wear chemically protective gloves, boots and aprons.					
Body protection	Overalls					
Respiratory protection	Not required for properly ventilated areas. Where the concentration of vapours in the breathing zone approaches or exceeds the "Exposure Standards" respiratory protection is required. Type A Filter of sufficient capacity.					

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless to yellow/ amber, low viscosity liquid with mild ether-like odour				
Physical state	Liquid	Relative density (Water = 1)	1.11		
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)	300-400		
Initial boiling point and boiling range (°C)	>205	Molecular weight (g/mol)	Not Available		
Flash point (°C)	>100	Taste	Not Available		
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available		
Flammability	Not Applicable	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)	0		
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

1) Not Available

VOC g/L 195

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	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Not normally a hazard due to non-volatile nature of product
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Reactive diluents exhibit a range of ingestion hazards. High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption.
Skin Contact	The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Bisphenol A diglycidyl ether (BADGE) may produce contact dermatitis characterised by erythema and oedema, with weeping followed by crusting and scaling. Skin contact with reactive diluents may cause slight to moderate irritation with local redness. 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	Eye contact with reactive diluents may cause slight to severe irritation with the possibility of chemical burns or moderate to severe corneal injury. 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 the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Bisphenol A diglycidyl ethers (BADGEs) produce sensitisation dermatitis characterised by a papular, vesicular eczema with considerable itching of the back of the hand, the forearm and face and neck. For some reactive diluents, prolonged or repeated skin contact may result in absorption of potentially harmful amounts or allergic skin reactions All glycidyl ethers show genotoxic potential due their alkylating properties. 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. Prolonged or repeated exposure to benzyl alcohol may cause allergic contact dermatitis.

RESENE ARMOURBOND	TOXICITY			IRRITATION		
BASE	Not Available			Not Available		
	TOXICITY		RITA	TATION		
	dermal (rat) LD50: >4 mg/kg ^[2]	Ey	/e: no	adverse effect observed (no	t irritating) ^[1]	
giycidyl neodecanoate	Inhalation (Rat) LC50: >0.25 mg/l4h ^[2]	SI	kin: no	no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >10 mg/kg ^[2]					
	TOXICITY IRRITATION		1			
phenol/ formaldehyde glycidyl ether copolymer	dermal (rat) LD50: >400 mg/kg ^[2]	Eye: no adverse effect observed (not		erse effect observed (not irrit	ritating) ^[1]	
	Oral (Rat) LD50: >5000 mg/kg ^[2] Skin: adverse effect observed (irritating) ^[1]		1]			
	TOXICITY			IRRITATION		
bisphenol A diglycidyl ether polymer	dermal (rat) LD50: >1200 mg/kg ^[2]	dermal (rat) LD50: >1200 mg/kg ^[2]			Not Available	
	Oral (Mouse) LD50; >500 mg/kg ^[2]					

Continued...

RESENE ARMOURBOND BASE

	TOYICITY					
benzyl alcohol	$\frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} + 1$	Eye: adverse effect observed (irritating) ^{L-1}				
		Skin (man). To mg/401-mild				
		Skin (abbit). To high 24th open-filled				
		okin. To deverse encer observed (not initiality).				
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					
RESENE ARMOURBOND BASE	The various members of the bisphenol family produce hormone like effects, seemingly as a result of binding to estrogen receptor-related receptors (ERRs; not to be confused with estrogen receptors) A suspected estrogen-related receptors (ERR) binding agent: Estrogen-related receptors (ERR, oestrogen-related receptors) are so named because of sequence homology with estrogen receptors but do not appear to bind estrogens or other tested steroid hormones. The ERR family have been demonstrated to control energy homeostasis, oxidative metabolism and mitochondrial biogenesis, while effecting mammalian physiology in the heart, brown adipose tissue, white adipose tissue, placenta, macrophages, and demonstrated additional roles in diabetes and cancer. ERRs bind enhancers throughout the genome where they exert effects on gene regulation Although their overall functions remain uncertain, they also share DNA-binding sites, co-regulators, and target genes with the conventional estrogen receptors Ralpha and ERbeta and may function to module estrogen signaling pathways. • ERR-alpha has wide tissue distribution but it is most highly expressed in tissues that preferentially use fatty acids as energy sources such as kidney, heart, brown adipose tissue, cerebellum, intestine, and skeletal muscle.					
GLYCIDYL NEODECANOATE	Exposure to the material may result in a possible risk of irreversit Asthma-like symptoms may continue for months or even years at identified in literature search. For glycidyl neodecanoate The material has a low order of acute toxicity by the oral, dermal, for 1,2-butylene oxide (ethyloxirane): Ethyloxirane increased the incidence of tumours of the respirator	ole effects. fter exposure to the material ends. No significant acute toxicological data , and inhalation routes of exposure. y system in male and female rats exposed via inhalation.				
PHENOL/ FORMALDEHYDE GLYCIDYL ETHER COPOLYMER	The material may produce moderate eye irritation leading to inflammation.					
BISPHENOL A DIGLYCIDYL ETHER POLYMER	Bisphenol A exhibits hormone-like properties that raise concern about its suitability in consumer products and food containers. All glycidyl ethers show genotoxic potential due their alkylating properties.					
BENZYL ALCOHOL	For benzyl alkyl alcohols: Unlike benzylic alcohols, the beta-hydroxyl group of the members of this cluster is unlikely to undergo phase II metabolic activation. For benzoates: 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					
RESENE ARMOURBOND BASE & BENZYL 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.					
RESENE ARMOURBOND BASE & GLYCIDYL NEODECANOATE	Fatty acid glycidyl esters (GEs) are potential carcinogens, due to (2,3-epoxypropanol) in the gastrointestinal tract, which has been Oxiranes (including glycidyl ethers and alkyl oxides, and epoxide	the fact that they readily hydrolyze into the free form glycidol found to induce tumours in various rat tissues. s) exhibit many common characteristics with respect to animal toxicology.				
RESENE ARMOURBOND BASE & BISPHENOL A DIGLYCIDYL ETHER POLYMER	In mice, dermal application of bisphenol A diglycidyl ether (BADGE) (1, 10, or 100 mg/kg) for 13 weeks produced mild to moderate chronic active dermatitis.					
RESENE ARMOURBOND BASE & PHENOL/ FORMALDEHYDE GLYCIDYL ETHER COPOLYMER & BISPHENOL A DIGLYCIDYL ETHER POLYMER	The chemical structure of hydroxylated diphenylalkanes or bisphenols consists of two phenolic rings joined together through a bridging carbon.					
GLYCIDYL NEODECANOATE & PHENOL/ FORMALDEHYDE GLYCIDYL ETHER COPOLYMER & BISPHENOL A DIGLYCIDYL ETHER POLYMER & BENZYL ALCOHOL	The following information refers to contact allergens as a group and may not be specific to this product.					
PHENOL/ FORMALDEHYDE GLYCIDYL ETHER COPOLYMER & BENZYL ALCOHOL	The material may cause skin irritation after prolonged or repeated	d exposure and may produce a contact dermatitis (nonallergic).				
Acute Toxicity	¥	Carcinogenicity X				

Continued...

RESENE ARMOURBOND BASE

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 r	ot available or does not fill the criteria for classification le to make classification

SECTION 12 Ecological information

RESENE ARMOURBOND	Endpoint	Test Duration (hr) s	Species	Value		Source	
BASE	Not Available	Not Available	1	Not Available	Not Available		Not Ava	ilable
	Endpoint	Test Duration (hr)	Spec	ies		Valu	e	Source
	EC50	48h	Crust	acea		4.8m	ng/l	1
	EC50	96h	Algae	e or other aquatic plan	ts	3.5m	ng/l	1
glycidyl neodecanoate	EC50	72h	Algae	e or other aquatic plan	ts	~1.2	mg/l	2
	LC50	96h	Fish			~5m	g/l	2
	NOEC(ECx)	96h	Algae	e or other aquatic plan	ts	1mg	/I	1
enol/ formaldebyde glycidyl	Endpoint	Test Duration (hr) s	Species	Value		Source	
ether copolymer	Not Available	Not Available	1	Not Available	Not Available		Not Ava	lable
	Endpoint	Test Duration (hr)	Species	Value	ç	Source	
isshanal A dightsidul other	EC50	48h	,	Crustacea		~2mg/l 2		
polymer	LC50	96h		Fish		2.4mg/l N		e
	EC50(ECx)	24h		Crustacea 3mg/l		٦	Not Available	
	Endpoint	Test Duration (hr)	Specie	s		Value		Source
	EC50	96h	Algae	or other aquatic plants	5	76.828r	mg/l	2
bonzul aleebel	EC50	48h	Crusta	Crustacea		230mg/l		2
benzyi alconol	EC50	72h	Algae	Algae or other aquatic plants		500mg/l		2
	NOEC(ECx)	336h	Fish			5.1mg/l		2
	1 C 50	96b	Fish	Fish		10mg/l		4

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 bisphenol A and related bisphenols:

Environmental fate:

Biodegradability (28 d)

Bioconcentration factor (BCF) 7.8 mg/l

Bisphenol A, its derivatives and analogues, can be released from polymers, resins and certain substances by metabolic products

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

As an environmental contaminant, bisphenol A interferes with nitrogen fixation at the roots of leguminous plants associated with the bacterial symbiont Sinorhizobium meliloti. Reactive diluents generally have a low to moderate potential for bioconcentration (tendency to accumulate in the food chain) and a high to very high potential for mobility in soil. Environmental toxicity is a function of the n-octanol/water partition coefficient (log Pow, log Kow).

Significant environmental findings are limited. For 1,2-Butylene oxide (Ethyloxirane):

log Kow values of 0.68 and 0.86.

Reactive diluents which are only slightly soluble in water and do not evaporate quickly are expected to sink to the bottom or float to the top, depending on the density, where they

would be expected to biodegrade slowly.

For benzyl alcohol:

log Kow : 1.1

Ecotoxicity

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

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
glycidyl neodecanoate	HIGH	HIGH
benzyl alcohol	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
glycidyl neodecanoate	LOW (LogKOW = 3.7305)
benzyl alcohol	LOW (LogKOW = 1.1)
Mahilida in anil	
MODILITY IN SOIL	
Ingredient	Mobility

	ingreaterit	modility
	glycidyl neodecanoate	LOW (Log KOC = 105.5)
	benzyl alcohol	LOW (Log KOC = 15.66)
1		

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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 Image: Constraint of the second s

Land transport (UN)

14.1. UN number or ID number	3082	
14.2. UN proper shipping name	ENVIRONMENTALLY copolymer and bispher	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glycidyl neodecanoate, phenol/ formaldehyde glycidyl ether nol A diglycidyl ether polymer)
14.3. Transport hazard class(es)	Class Subsidiary Hazard	9 Not Applicable
14.4. Packing group	ш	
14.5. Environmental hazard	Environmentally hazar	dous

14.6. Special precautions for	Special provisions	274; 331; 335; 375
user	Limited quantity	5 L

Air transport (ICAO-IATA / DGR)

	-					
14.1. UN number	3082					
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains glycidyl neodecanoate, phenol/ formaldehyde glycidyl ether copolymer and bisphenol A diglycidyl ether polymer)					
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	9 Not Applicable 9L				
14.4. Packing group		III				
14.5. Environmental hazard	Environmentally hazardous					
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions		A97 A158 A197 A215 964	-		
	Cargo Only Maximum Qty / Pack		450 L			
	Passenger and Cargo Packing In	structions	964			
	Passenger and Cargo Maximum	Qty / Pack	450 L			
	Passenger and Cargo Limited Qu	antity Packing Instructions	Y964			
	Passenger and Cargo Limited Ma	aximum Qty / Pack	30 kg G			

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3082		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glycidyl neodecanoate, phenol/ formaldehyde glycidyl ether copolymer and bisphenol A diglycidyl ether polymer)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazar	9 rd Not Applicable	
14.4. Packing group	Ш		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS Number F Special provisions 2 Limited Quantities 5	F-A , S-F 274 335 969 5 L	

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
glycidyl neodecanoate	Not Available
phenol/ formaldehyde glycidyl ether copolymer	Not Available
bisphenol A diglycidyl ether polymer	Not Available
benzyl alcohol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
glycidyl neodecanoate	Not Available
phenol/ formaldehyde glycidyl ether copolymer	Not Available
bisphenol A diglycidyl ether polymer	Not Available
benzyl alcohol	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
HSB002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020

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

glycidyl neodecanoate is found on the following regulatory lists			
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 Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods			
phenol/ formaldehyde glycidyl ether copolymer is found on the following regulatory lists			
New Zealand Inventory of Chemicals (NZIoC)			
New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods			
bisphenol A diglycidyl ether polymer is found on the following regulatory lists			
Chemical Footprint Project - Chemicals of High Concern List			
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)			
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)			
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			
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 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			
Additional Regulatory Information			

Not Applicable

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	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (glycidyl neodecanoate; phenol/ formaldehyde glycidyl ether copolymer; bisphenol A diglycidyl ether polymer; benzyl alcohol)
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	No (bisphenol A diglycidyl ether polymer)
Vietnam - NCI	Yes
Russia - FBEPH	Yes

National Inventory	Status
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	11/03/2024
Initial Date	06/01/2014
SDS Version Summary	

Version Date of Update Sections Updated 10/03/2024 Hazards identification - Classification 5.13

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

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- ۲ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit, ۶
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- ٠ 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 Þ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level ۶
- PNEC: Predicted no-effect concentration

AIIC: Australian Inventory of Industrial Chemicals

- DSL: Domestic Substances List
- ٠ NDSL: Non-Domestic Substances List
- ÷ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ٠
- ELINCS: European List of Notified Chemical Substances ٠
- NLP: No-Longer Polymers ۶
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory ٠
- NZIoC: New Zealand Inventory of Chemicals ٠
- PICCS: Philippine Inventory of Chemicals and Chemical Substances ٠
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory ٠
- ۶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory ۲
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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