RESENE LUMBERSIDER LOW SHEEN

Resene Paints LTD

Version No: 4.4

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

Issue Date: 27/10/2023 Print Date: 27/10/2023 L.GHS.NZL.EN

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

Product Identifier	
Product name	RESENE LUMBERSIDER LOW SHEEN
Synonyms	Incl. White, Pastel, Light, Mid, Deep, Ultra Deep, Ochre, Green, Black, Magenta, Light Grey, Winter Grade White, Yellow 2, Rich Red, Intense Red, Cool Black, HO Cool Black.
Other means of identification	Not Available

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

Relevant identified uses 11352 11355 11363 11366 11367 11368 11369 11353 11354 11357 11358 11359 11360 11364 11365

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints LTD
Address	32-50 Vogel Street, Lower Hutt, Wellington, New Zealand 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	۸f	tha	cubetanco	۰r	mivturo
Classification	oı	tne	Substance	OI	mixture

Classification [1]	Hazardous to the Aquatic Environment Long-Term Hazard Category 4
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	9.1D

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s) Prevention

P273 Avoid release to the environment.

Precautionary statement(s) Response

Not Applicable

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

Version No: **4.4** Page **2** of **8** Issue Date: **27/10/2023**

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

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
25265-77-4	<2	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate
886-50-0	0.1-0.3	terbutryn
Legend:	Classified by Chemwatch; 2. 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 eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • 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. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 Firefighting measures

Fire Incompatibility

Extinguishing media

water, alcohol stable foam.

Special hazards arising from the substrate or mixture

Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.
Fire/Evplosion Hazard	Non combustible. Burning release:

other pyrolysis products typical of burning organic material.

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

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

May emit poisonous fumes.

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Control personal contact with the substance, by using personal protective equipment. Contain spill with sawdust, sand, earth, inert material or vermiculite then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sawdust, sand, earth, inert material or vermiculite then place in suitable, labelled container for waste disposal. Wipe up. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

 Version No: 4.4
 Page 3 of 8
 Issue Date: 27/10/2023

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	Avoid unnecessary personal contact.
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

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	13 mg/m3	140 mg/m3		840 mg/m3
Ingredient	Original IDLH		Revised IDLH	
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Not Available		Not Available	
terbutryn	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
terbutryn E ≤(≤ 0.01 mg/m³	
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

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 Chemical goggles. 	
Skin protection	See Hand protection below	
Hands/feet protection	 Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. 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. Wear chemical protective gloves, e.g. PVC. 	
Body protection	Overalls	
Respiratory protection	No special measures required.	

SECTION 9 Physical and chemical properties

Information	on basic r	shyeical and	l chamical	nronortice

Appearance	Acrylic dispersion		
Physical state	Liquid	Relative density (Water = 1)	1.2-1.4

 Version No: 4.4
 Page 4 of 8
 Issue Date: 27/10/2023

RESENE LUMBERSIDER LOW SHEEN

Print Date: **27/10/2023**

	i		1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7-9	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1000-1500
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Not Available	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)	40-45
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	<50

SECTION 10 Stability and reactivity

Reactivity	See section 7	
Chemical stability	This product is stable and non-reactive under normal conditions of use, storage, and transport.	
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	toxicologic	al	effects
	•	tox.co.og.c	٠.	000.0

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).	
Ingestion	he material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'.	
Skin Contact	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.	
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).	
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.	

RESENE LUMBERSIDER LOW	
SHEEN	

TOXICITY	IRRITATION
Not Available	Not Available

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate

TOXICITY	IRRITATION
dermal (guinea pig) LD50: >19 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
Oral (Rat) LD50: >3200 mg/kg ^[2]	Eyes - Moderate irritant *
	Skin - Slight irritant *
	Skin (rabbit): mild ***
	Skin: no adverse effect observed (not irritating) ^[1]

Version No: **4.4** Page **5** of **8** Issue Date: **27/10/2023**

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

	TOXICITY				
to the state of	dermal (rat) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 76	6 mg - moderate		
terbutryn	Inhalation(Rat) LC50: >8 mg/L4h ^[2]	Skin (rabbit): 3	80 mg open - mild		
	Oral (Rat) LD50: 2045 mg/kg ^[2]				
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 LUMBERSIDER LOW SHEEN	Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body.				
2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE	Not a skin sensitiser (guinea pig, Magnusson-Kligman) *** Ames Test: negative *** Micronucleus, mouse: negative *** Not mutagenic *** No effects on fertility or foetal development seen in the rat *** * [SWIFT] ** [Eastman] *** [Perstop] The material may be irritating to the eye, with prolonged contact causing inflammation.				
TERBUTRYN	NOEL (90 days) for rats 600 mg/kg diet (50 mg/kg daily); (6 months) dogs 1000 mg/kg diet (10 mg/kg daily) * Toxicity Class WHO III; EPA III * ADI: 0.1 mg/kg/day NOEL: 10 mg/kg/day For terbutryn: Acute Toxicity: Terbutryn is slightly toxic. The material may produce moderate eye irritation leading to inflammation. [* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council]				
2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE & TERBUTRYN	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).				
Acute Toxicity	×	Carcinogenicity	×		
Skin Irritation/Corrosion	×	Reproductivity	×		
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×		
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×		

Legend:

X – Data either not available or does not fill the criteria for classification

– Data available to make classification

SECTION 12 Ecological information

Toxicity

SENE LUMBERSIDER LOW	Endpoint	Test Duration (hr)	Species	Value		Source
SHEEN	Not Available	Not Available		Not Available Not Avail		ilable Not Available	
	Endpoint	Test Duration (hr)	Speci	es		Value	Source
	EC50	72h	Algae	or other aquatic plants		15mg/l	Not Available
2,4-trimethyl-1,3-pentanediol monoisobutyrate	EC50	48h	Crusta	Crustacea		>19mg/l	2
monoisobutyrate	NOEC(ECx)	72h	Algae or other aquatic plants			3.28mg/l	1
	LC50	96h Fish			16mg/l	Not Available	
	Endnoint	Test Duration (hr)	Species		Val	110	Source
	Endpoint	. ,	, , , , , , , , , , , , , , , , , , ,				
	EC50	72h	Algae or o	other aquatic plants	0.00	019-0.0021mg	/l 4
terbutryn	EC50	48h	Crustacea		2.4	2.408-3.646mg/L	
terbuttyii	EC50	96h	96h Algae or other aquatic plants		0.0	0.0007-0.051mg/l	
	EC10(ECx)	96h	96h Algae or other aquatic plants		<=0	<=0.00006mg/l	
	LC50	96h	Fish		0.50	6-1.2mg/l	4

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.

- Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW	LOW		
terbutryn	HIGH	HIGH		

Version No: **4.4** Page **6** of **8** Issue Date: **27/10/2023**

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

Bioaccumulative potential

Ingredient	Bioaccumulation
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW (LogKOW = 2.9966)
terbutryn	LOW (LogKOW = 2.8257)

Mobility in soil

Ingredient	Mobility
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW (KOC = 22.28)
terbutryn	LOW (KOC = 3590)

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.

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).

For treating and discharging processes contact your local authority.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Not Available
terbutryn	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Not Available
terbutryn	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
HSR002670	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.

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate is found on the following regulatory lists

Version No: **4.4** Page **7** of **8** Issue Date: **27/10/2023**

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

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)

terbutryn 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 Pota

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

of Chemicals - Classification Data

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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

·		
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	27/10/2023
Initial Date	15/03/2018

SDS Version Summary

Version	Date of Update	Sections Updated
3.4	27/10/2023	Identification of the substance / mixture and of the company / undertaking - Use

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
- 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
- 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
- ► DNEL: Derived No-Effect Level
- ► PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals

Version No: 4.4 Page 8 of 8 Issue Date: 27/10/2023

RESENE LUMBERSIDER LOW SHEEN

Print Date: 27/10/2023

- ► DSL: 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
 FNCS: Evisting and New Chemical Substances Inventory

- ► 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
 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

Powered by AuthorITe, from Chemwatch.