# RCS SPECTRA RESENE CONSTRUCTION SYSTEMS LTD

Version No: 1.1.3.7

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

Issue Date: 01/07/2021 Print Date: 01/07/2021 L.GHS.NZL.EN

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

Proc	luct	Ident	ifier

Product name	RCS SPECTRA
Chemical Name	Not Applicable
Synonyms	Not Available
Other means of identification	Not Available

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

### Details of the supplier of the safety data sheet

Registered company name	RESENE CONSTRUCTION SYSTEMS LTD
Address	32-50 Vogel Street Naenae Wellington 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 7 days)		NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
	Emergency telephone numbers	0800 764766	+61 2 9186 1132
	Other emergency telephone numbers	0800 737636	+64 800 700 112

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

# **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Classification [1]	Chronic Aquatic Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	9.1C	

# Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

### Hazard statement(s)

H412	Harmful to aquatic life with long lasting effects.

## Precautionary statement(s) Prevention

-	
P27	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: **1.1.3.7** Page **2** of **8** Issue Date: **01/07/2021** 

### **RCS SPECTRA**

Print Date: 01/07/2021

### Substances

See section below for composition of Mixtures

### **Mixtures**

CAS No	%[weight]	Name
26530-20-1	<0.025	2-octyl-4-isothiazolin-3-one
13463-41-7	<0.025	zinc pyrithione
886-50-0	<0.025 Balance of ingredients: Non- hazardous, or below the hazardous threshold.	<u>terbutryn</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		gulation (EU) No 1272/2008 - Annex VI;

### **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	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

None known.

Treat symptomatically.

# **SECTION 5 Firefighting measures**

### **Extinguishing media**

- ► There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility

Advice for firefighters	
Fire Fighting	put out fire with water
Fire/Explosion Hazard	Non combustible.  Decomposition may produce toxic fumes of: metal oxides

# **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

methods and material for contaminent and occaring up		
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.	

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	► Limit all unnecessary personal contact.

Version No: 1.1.3.7 Page 3 of 8

### **RCS SPECTRA**

Issue Date: 01/07/2021 Print Date: 01/07/2021

Other information

Store in original containers.

# Conditions for safe storage, including any incompatibilities

Suitable container	As supplied by manufacturers
Storage incompatibility	None known

# 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
RCS SPECTRA	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
2-octyl-4-isothiazolin-3-one	Not Available		Not Available	
zinc pyrithione	Not Available		Not Available	
terbutryn	Not Available		Not Available	

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
2-octyl-4-isothiazolin-3-one	E	≤ 0.1 ppm
zinc pyrithione	E	≤ 0.01 mg/m³
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

for pyrithiones:

CEL TWA: 1 mg/m3 (compare MAK value sodium pyrithione) (CEL = Chemwatch Exposure Limit)

Sodium pyrithione is readily absorbed from the gastrointestinal tract and through the skin.

### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	Safety glasses with side shields     Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	Overalls
Other protection	No special equipment needed when handling small quantities.

### **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

• •	• •		
Appearance Paste with characteristic odour			
Physical state	Paste	Relative density (Water = 1)	1.8
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8	Decomposition temperature	Not Available

 Version No: 1.1.3.7
 Page 4 of 8
 Issue Date: 01/07/2021

 Print Date: 01/07/2021
 Print Date: 01/07/2021

# **RCS SPECTRA**

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Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	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)	Not Available
Vapour pressure (kPa)	24	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	40

# **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

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	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models).
Еуе	Although the material 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	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.

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RUS	SPECTR/	١

TOXICITY	IRRITATION
Not Available	Not Available

# 2-octyl-4-isothiazolin-3-one

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 311 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.5% non irritant
Oral(Rat) LD50; 125 mg/kg <sup>[1]</sup>	Eye (rabbit): 45% conc CORROSIVE
	Eye (rabbit): 5% conc moderate
	Eye(rabbit):100 mg SEVERE
	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
	Skin (rabbit): 45% conc SEVERE
	Skin (rabbit): 500 mg/24 hours
	Skin: adverse effect observed (corrosive) <sup>[1]</sup>
	Skin: adverse effect observed (irritating) <sup>[1]</sup>

# zinc pyrithione

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 1 mg/48h Irritant
Inhalation(Rat) LC50; 0.14 mg/L4h <sup>[2]</sup>	
Oral(Rat) LD50; 221 mg/kg <sup>[1]</sup>	

Version No: 1.1.3.7 Page 5 of 8 Issue Date: 01/07/2021

### **RCS SPECTRA**

Print Date: 01/07/2021

TOXICITY	IRRITATION
dermal (rat) LD50: 699 mg/kg <sup>[2]</sup>	Eye (rabbit): 76 mg - moderate
Inhalation(Rat) LC50; >8 mg/L4h <sup>[2]</sup>	Skin (rabbit): 380 mg open - mild
Oral(Mouse) LD50; 554 mg/kg <sup>[2]</sup>	
	dermal (rat) LD50: 699 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; >8 mg/L4h <sup>[2]</sup>

Legend:

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

### 2-OCTYL-4-ISOTHIAZOLIN-3-ONE

ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases.

# ZINC PYRITHIONE

Short-term studies: Zinc pyrithione was orally administered to cynomolgus monkeys daily for 14 or 28 days. In the 14-day study, treatment at 10, 20, 40 or 80 mg/kg bw/day resulted in haemorrhaging of the stomach mucosa and bodyweight loss at the highest tested dose.

Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). NOAEL: 11.0 mg/kg/day cynomolgus monkey \* [\* = Arch Chemical] Acute pulmonary oedema, dyspnea, weight loss or decreased weight gain,

recordings from specific areas of the CNS, mydriasis, somnolence, changes in motor activity, recording from peripheral motor nerve, muscle weakness, spastic paralysis, reproductive system tumours, retinal changes, diarrhoea, foetoxicity, specific developmental abnormalities

(musculoskeletal system, central nervous system, effects on newborn, foetolethality recorded. 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 \*

# **TERBUTRYN**

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 material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

[ \* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council1

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

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

🎤 – Data available to make classification

### **SECTION 12 Ecological information**

# Toxicity

RCS SPECTRA	Endpoint		Test Duration (hr)		Species	Value		Source	
RGS SPECIRA	Not Available		Not Available		Not Available	Not Ava	ilable	Not Available	
	Endpoint	Tes	t Duration (hr)	Species			Value		Source
2-octyl-4-isothiazolin-3-one	LC50	96h		Fish			0.041-0.104mg/	I	4
	EC50	48h		Crustacea		0.057-0.178mg/	L	4	
	NOEC(ECx)	840	h	Fish			0.009mg/L		4
	EC50	96h		Algae or other aquatic plants		0.15mg/l		2	
	Endpoint	Test	Duration (hr)	Species			Value		Source

# zinc pyrithione

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	0.001mg/L	4
BCF	1440h	Fish	52-180	7
EC50	48h	Crustacea	0.008mg/L	4
LC50	96h	Fish	0.003-0.004mg/L	4
EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
EC50	96h	Algae or other aquatic plants	<0.001mg/L	4

# terbutrvn

Endpoint	Test Duration (hr)	Species	Value	Source
EC50(ECx)	72h	Algae or other aquatic plants	0.002mg/L	4
EC50	72h	Algae or other aquatic plants	0.002mg/L	4
LC50	96h	Fish	0.56-1.2mg/l	4
EC50	96h	Algae or other aquatic plants	0.003mg/L	5

 Version No: 1.1.3.7
 Page 6 of 8
 Issue Date: 01/07/2021

 Print Date: 01/07/2021
 Print Date: 01/07/2021

### **RCS SPECTRA**

	EC50	48h	Crustacea	2.408-3.646mg/L	4
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment				
	Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

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

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

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-octyl-4-isothiazolin-3-one	HIGH	HIGH
terbutryn	HIGH	HIGH

### Bioaccumulative potential

Ingredient	Bioaccumulation
2-octyl-4-isothiazolin-3-one	LOW (LogKOW = 2.561)
zinc pyrithione	LOW (BCF = 240)
terbutryn	LOW (LogKOW = 2.8257)

### Mobility in soil

Ingredient	Mobility
2-octyl-4-isothiazolin-3-one	LOW (KOC = 2120)
terbutryn	LOW (KOC = 3590)

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal	► Recycle wherever possible or consult manufacturer for recycling options.
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Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

### **Disposal Requirements**

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

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	D ~ ~	:
Labeis	Reu	ıuırea

Labels Nedulieu	
Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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

Not Applicable

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

Product name	Group
2-octyl-4-isothiazolin-3-one	Not Available
zinc pyrithione	Not Available
terbutryn	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
2-octyl-4-isothiazolin-3-one	Not Available
zinc pyrithione	Not Available
terbutryn	Not Available

# **SECTION 15 Regulatory information**

### **RCS SPECTRA**

Print Date: 01/07/2021

### 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	
HSR002544	Construction Products 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-octyl-4-isothiazolin-3-one is found on the following regulatory lists

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

New Zealand Inventory of Chemicals (NZIoC)

#### zinc pyrithione 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)

### terbutryn is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO)  $\operatorname{Act}$  - Classification of Chemicals

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

New Zealand Inventory of Chemicals (NZIoC)

### **Hazardous Substance Location**

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

Hazard Class	Quantities
Not Applicable	Not Applicable

#### **Certified Handler**

of Chemicals

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		
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 and are not exempt from listing(see specific ingredients in brackets)	

# **SECTION 16 Other information**

Revision Date	01/07/2021
Initial Date	30/06/2021

### 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

Version No: 1.1.3.7 Page 8 of 8 Issue Date: 01/07/2021

### **RCS SPECTRA**

Print Date: 01/07/2021

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

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

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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