### **PSL COOLPLAST**

# ROCKCOTE RESENE LTD TRADING AS RESENE CONSTRUCTION SYSTEMS

Version No: 2.3

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

Issue Date: **13/04/2022**Print Date: **13/04/2022**L.GHS.NZL.EN

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

#### **Product Identifier**

Product name	PSL COOLPLAST
Synonyms	Not Available
Other means of identification	Not Available

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

Registered company name	ROCKCOTE RESENE LTD TRADING AS RESENE CONSTRUCTION SYSTEMS				
Address	-80 Vogel Street Naenae Lower Hutt Not applicable				
Telephone	64 4 577 0500				
Fax	64 4 577 3327				
Website	www.resene.co.nz				
Email	advice@resene.co.nz				

#### **Emergency telephone number**

Association / Organisation	NZ POISONS (24 hrs, 7 days)	CHEMWATCH EMERGENCY RESPONSE		
Emergency telephone numbers	0800737363	+64 800 700 112		
Other emergency telephone numbers	Not Available	+61 2 9186 1132		

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 <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Skin Corrosion/Irritation 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	6.3A, 8.3A, 6.1E (respiratory tract irritant)

#### Label elements

Hazard pictogram(s)





Signal word

Danger

### Hazard statement(s)

H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H315	Causes skin irritation.

#### Precautionary statement(s) Prevention

• • • • • • • • • • • • • • • • • • • •	
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing dust/fumes.
P264	Wash all exposed external body areas thoroughly after handling.

### 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.

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P310	Immediately call a POISON CENTER/doctor/physician/first aider.					
P302+P352	IF ON SKIN: Wash with plenty of water and soap.					
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.					
P332+P313	If skin irritation occurs: Get medical advice/attention.					
P362+P364	Take off contaminated clothing and wash it before reuse.					

### Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### 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				
14808-60-7.	40-80	graded sand			
1332-58-7	2-5	kaolin			
65997-15-1	20-40	portland cement			
1317-80-2	1-10 <u>titanium dioxide (rutile)</u>				
Legend:	Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;     Classification drawn from C&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:  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 in event of irritation.
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 dust is inhaled remove from contaminated area.  Seek medical attention in event of irritation.
Ingestion	<ul> <li>If swallowed doNOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

### **Extinguishing media**

► As for surrounding fire

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.				
Advice for firefighters					
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>				
Fire/Explosion Hazard	Non combustible. silicon dioxide (SiO2)				

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When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles

May emit poisonous fumes

May emit corrosive fumes

#### **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**

- Clean up all spills immediately.
- Avoid contact with skin and eyes
- Control personal contact with the substance, by using protective equipment.
- Use dry clean up procedures and avoid generating dust.
- Place in a suitable, labelled container for waste disposal.

#### Moderate hazard.

- ► CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.

#### Major Spills

- Control personal contact by wearing protective clothing.
- ▶ Prevent, by any means available, spillage from entering drains or water courses.
- Recover product wherever possible.
- F IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Shovel up and place in labelled containers for disposal.

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.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
  - When handling, DO NOT eat, drink or smoke.
  - Keep containers securely sealed when not in use.
  - Always wash hands with soap and water after handling.
- Other information
- ► Store in original containers.

### Conditions for safe storage, including any incompatibilities

#### Suitable container

Storage incompatibility

As supplied by manufacturer

For aluminas (aluminium oxide):

Incompatible with hot chlorinated rubber.

#### Calcium oxide:

- reacts violently with water, evolving high quantities of heat
- reacts violently, with possible ignition or explosion, with acids, anilinium perchlorate, bromine pentafluoride, chlorine trifluoride, fluorine, hydrogen fluoride, hydrozine, hydrogen sulfide, hydrogen trisulfide, isopropyl isocyanide dichloride, light metals, lithium, magnesium, powdered aluminium, phosphorus, potassium, sulfur trioxide
- ▶ increase the explosive sensitivity of azides, nitroalkanes (e.g. nitroethane, nitromethane, 1-nitropropane etc.)
- is incompatible with boric acid, boron trifluoride, carbon dioxide, ethanol, halogens (such as fluorine), metal halides, phosphorus pentoxide, selenium oxychloride, sulfur dioxide and many organic materials

### Calcium sulfate:

- reacts violently with reducing agents, acrolein, alcohols, chlorine trifluoride, diazomethane, ethers, fluorine, hydrazine, hydrazinium perchlorate, hydrogen peroxide, finely divided aluminium or magnesium, peroxyfuroic acid, red phosphorus, sodium acetylide
- ▶ sensitises most organic azides which are unstable shock- and heat- sensitive explosives
- ▶ may form explosive materials with 1,3-di(5-tetrazolyl)triazene
- is incompatible with glycidol, isopropyl chlorocarbonate, nitrosyl perchlorate, sodium borohydride
- ▶ is hygroscopic; reacts with water to form gypsum and Plaster of Paris

### For iron oxide (ferric oxide):

Avoid storage with aluminium, calcium hypochlorite and ethylene oxide.

#### Titanium dioxide

- reacts with strong acids, strong oxidisers
- reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at elevated temperatures - these reactions involves reduction of the oxide and are accompanied by incandescence
- b dust or powders can ignite and then explode in a carbon dioxide atmosphere
- Avoid contact with moisture
- Avoid strong acids
- Avoid contact with copper, aluminium and their alloys.

#### **SECTION 8 Exposure controls / personal protection**

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#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	graded sand	Quartz respirable dust	0.05 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	kaolin	Kaolin	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	kaolin	Kaolin respirable dust	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	portland cement	Portland cement respirable dust	1 mg/m3	Not Available	Not Available	(dsen)-Dermal sensitiser
New Zealand Workplace Exposure Standards (WES)	portland cement	Portland cement	3 mg/m3	Not Available	Not Available	(dsen)-Dermal sensitiser
New Zealand Workplace Exposure Standards (WES)	titanium dioxide (rutile)	Titanium dioxide	10 mg/m3	Not Available	Not Available	Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
graded sand	0.075 mg/m3	33 mg/m3	200 mg/m3
titanium dioxide (rutile)	30 mg/m3	330 mg/m3	2,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
graded sand	25 mg/m3 / 50 mg/m3	Not Available
kaolin	Not Available	Not Available
portland cement	5,000 mg/m3	Not Available
titanium dioxide (rutile)	5,000 mg/m3	Not Available

#### MATERIAL DATA

for chrome(VI) containing substances:

Some jurisdictions require that health surveillance be carried on workers occupationally exposed to inorganic chromium.

For kaolin:

Kaolin dust appears to have fibrogenic potential even in the absence of crystalline silica.

The concentration of respirable dust for application of this limit is to be determined from the fraction that penetrates a separator whose size collection efficiency is described by a cumulative lognormal function with a median aerodynamic volume of 4.0 um (+-) 0.3 um and with a geometric standard deviation of 1.5 um (+-) 0.1 um, i.e.. for calcium silicate:

containing no asbestos and <1% crystalline silica

ES TWA: 10 mg/m3 inspirable dust

TLV TWA: 10 mg/m3 total dust (synthetic nonfibrous) A4

Although in vitro studies indicate that calcium silicate is more toxic than substances described as 'nuisance dusts' is thought that adverse health effects which might occur following exposure to 10-20 mg/m3 are likely to be minimal.

NOTE: This substance has been classified by the ACGIH as A4 NOT classifiable as causing Cancer in humans

WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS

The International Agency for Research on Cancer (IARC) has classified occupational exposures to **respirable** (<5 um) crystalline silica as being carcinogenic to humans . For aluminium oxide:

The experimental and clinical data indicate that aluminium oxide acts as an 'inert' material when inhaled and seems to have little effect on the lungs nor does it produce significant organic disease or toxic effects when exposures are kept under reasonable control.

Animals exposed by inhalation to 10 mg/m3 titanium dioxide show no significant fibrosis, possibly reversible tissue reaction.

The concentration of dust, for application of respirable dust limits, is to be determined from the fraction that penetrates a separator whose size collection efficiency is described by a cumulative log-normal function with a median aerodynamic diameter of 4.0 um (+-) 0.3 um and with a geometric standard deviation of 1.5 um (+-) 0.1 um, i.e., generally less than 5 um.

### **Exposure controls**

### Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can Appropriate engineering be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. controls Personal protection Safety glasses with side shields. Eve and face protection Chemical goggles. Skin protection See Hand protection below 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. Hands/feet protection Protective gloves Safety shoes **Body protection** Overalls Other protection P.V.C. apron.

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Particulate.

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

### Information on basic physical and chemical properties

Information on basic physical	and chemical properties		
Appearance	Grey powder		
Physical state	Solid	Relative density (Water = 1)	>1
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	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	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 Applicable
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 (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	0

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	▶ Product is considered 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	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system.  Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.
Ingestion	Chromate salts are corrosive because of their oxidising potency and produce tissue injury similar to acid burns.  The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'.  Not normally a hazard due to the physical form of product.
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). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Contact with aluminas (aluminium oxides) may produce a form of irritant dermatitis accompanied by pruritus.  Skin contact may result in severe irritation particularly to broken skin.  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 material produces severe ocular lesions which are present twenty-four hours or more after instillation.

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On the basis of epidemiological data, it has been concluded that prolonged inhalation of the material, in an occupational setting, may produce cancer in humans.

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population.

Chronic exposure to aluminas (aluminium oxides) of particle size 1.2 microns did not produce significant systemic or respiratory system effects in

workers.

Red blood cells and rabbit alveolar macrophages exposed to calcium silicate insulation materials in vitro showed haemolysis in one study but not

in another.

Cement contact dermatitis (CCD) may occur when contact shows an allergic response, which may progress to sensitisation.

The health hazards associated with bentonite, kaolin, and common clay, which are commercially important clay products, as well as the related phyllosilicate minerals montmorillonite, kaolinite, and illite, have an extensive literature.

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 skin contact may cause drying with cracking, irritation and possible dermatitis following.

Chronic excessive iron exposure has been associated with haemosiderosis and consequent possible damage to the liver and pancreas.

The expected acute oral toxicity of bentonite in humans is very low (LD50>15 g/kg).  PORTLAND CEMENT The following information refers to contact allergens as a group and may not be specific to this product.  The material may produce moderate eye irritation leading to inflammation.					
graded sand  TOXICITY Oral (Rat) LD50; 500 mg/kg <sup>[2]</sup> Not Available  TOXICITY Skin: no adverse effect observed (not irritating) <sup>[4]</sup> Skin: no adverse effect observed (not irritating) <sup>[4]</sup> Skin: no adverse effect observed (not irritating) <sup>[4]</sup> Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. "Value obtained from manufacturer's SDS. Unless otherwiss specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  PSL COOLPLAST  WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.  for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. The expected acute oral toxicity of bentonite in humans is very low (LD50-15 g/kg).  The following information refers to contact allergens as a group and may not be specific to this product.  The material may produce moderate eye irritation leading to infiammation. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human total produce and contact dermatitis (nonallergic). Skin (human total produce and contact dermatitis (nonallergic). Skin (human total produce and contact dermatitis (nonallergic). Skin (human total produce moderate eye irritation repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human total produce moderate eye irritation repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human total produce moderate eye irritation repeated exposure and may pro		TOXICITY		IRRITATION	
TOXICITY   IRRITATION   Not Available	PSL COOLPLAST	Not Available		Not Available	
TOXICITY   IRRITATION		TOXICITY			IRRITATION
Not Available   Not Available   Not Available	graded sand	Oral (Rat) LD50; 500 mg/kg <sup>[2]</sup>			Not Available
portland cement  TOXICITY  Not Available  TOXICITY  IRRITATION  Not Available  TOXICITY  IRRITATION  Total (Rat) LD50; >2000 mg/kg <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwiss specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  PSL COOLPLAST  WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.  for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. The expected acute oral toxicity of bentonite in humans is very low (LD50-15 g/kg).  PORTLAND CEMENT  The following information refers to contact allergens as a group and not be specific to this product.  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). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human triation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).		TOXICITY		IRRITATION	
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WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.  for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. The expected acute oral toxicity of bentonite in humans is very low (LD50>15 g/kg).  PORTLAND CEMENT The following information refers to contact allergens as a group and may not be specific to this product.  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). Skin (humans)					
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The material may produce moderate eye irritation leading to inflammation.  TITANIUM DIOXIDE (RUTILE)  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). Skin (human	KAOLIN	Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water.			
TITANIUM DIOXIDE (RUTILE) The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human	PORTLAND CEMENT	The following information refers to contact allergens as a	group and mag	y not be specific to this p	roduct.
	TITANIUM DIOXIDE (RUTILE)	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Skin (human)			

GRADED SAND & KAOLIN & PORTLAND CEMENT & TITANIUM DIOXIDE (RUTILE)	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

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

Humans can be exposed to titanium dioxide via inhalation, ingestion or dermal contact.

Legend:

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

Data available to make classification

#### **SECTION 12 Ecological information**

PSL COOLPLAST &

PORTLAND CEMENT
PSL COOLPLAST & TITANIUM

DIOXIDE (RUTILE)

For titanium dioxide:

Chronic

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**PSL COOLPLAST** 

PSL COOLPLAST	Endpoint	Test Duration (hr)	Species	Value	Source	e
PSL COOLPLAST	Not Available	Not Available	Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	Species	Value	Source	e
graded sand	Not Available	Not Available	Not Available	Not Available	Not A	vailable
kaolin	Endpoint	Test Duration (hr)	Species	Value	Source	e
Raoiiii	Not Available	Not Available	Not Available	Not Available	Not A	vailable
portland cement	Endpoint	Test Duration (hr)	Species	Value	Source	e
portiana cement	Not Available	Not Available	Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	Species		Value	Source
	-		· ·			
	NOEC(ECx)	48h	Crustacea		<=1mg/l	2
titanium dioxide (rutile)	LC50	96h	Fish		>100mg/l	2
	EC50	72h	Algae or other aquatic plants		13mg/l	2
	EC50	48h	Crustacea		>100mg/l	2
Legend:			CHA Registered Substances - Ec			

Toxic to aquatic organisms.

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

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested

Chromium in the oxidation state +3 (the trivalent form) is poorly absorbed by cells found in microorganisms, plants and animals.

Since chromium compounds cannot volatilize from water, transport of chromium from water to the atmosphere is not likely, except by transport in windblown sea sprays.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide (rutile)	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
titanium dioxide (rutile)	LOW (BCF = 10)

### Mobility in soil

Ingredient	Mobility
titanium dioxide (rutile)	LOW (KOC = 23.74)

### **SECTION 13 Disposal considerations**

### Waste treatment methods

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.

### **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

Labels Required	
Marine Pollutant	NO
HAZCHEM	2Z

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**PSL COOLPLAST** 

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
graded sand	Not Available
kaolin	Not Available
portland cement	Not Available
titanium dioxide (rutile)	Not Available

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

Product name	Ship Type
graded sand	Not Available
kaolin	Not Available
portland cement	Not Available
titanium dioxide (rutile)	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	
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.

### graded sand is found on the following regulatory lists

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 1: Carcinogenic to humans

New Zealand Approved Hazardous Substances with controls

kaolin 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)

portland cement is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

titanium dioxide (rutile) is found on the following regulatory lists

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

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)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Workplace Exposure Standards (WES)

New Zealand Approved Hazardous Substances with controls

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

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.

Not Applicable Not Applicable	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 fo	or each classification
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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	13/04/2022
Initial Date	28/04/2017

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.3	13/04/2022	Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Chronic Health, Classification, Environmental, Exposure Standard, Fire Fighter (fire/explosion hazard), First Aid (skin), First Aid (swallowed), Personal Protection (Respirator), Physical Properties, Spills (minor), Storage (storage incompatibility)

#### 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

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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