

# Safety Data Sheet

## Environmental Protection Authority

Hazardous Substances (identification)  
Regulations 2004 (NZ)



Product Name  
**Rebelein Z1**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

### Section 1

Manufacturer's Name: Pacific Rim Oenology Services	Emergency Telephone Number: National Poisons 24hr: 0800 764 766
Address (Number, Street, City, Region, and Post Code): 4 Bristol St, Riverlands, Blenheim, Marlborough, 7274	Telephone Number for Information: (+64) (0) 3 577-9000
PO Box 1132, Blenheim 7240	Original - Issue date: 19/07/17 - 14/11/17
New Zealand	

### Section 2 - Hazard(s) identification

Hazardous Components (Specific Chemical Identity; Common Name(s))	HSNO for components	Classification
Copper sulfate #7758-99-8	HSR006602	6.1E, 6.3A, 6.4A, 6.5B, 6.9B, 9.1B
Sulfuric acid #7664-93-9	HSR001588	6.1E, 6.3A, 6.4A, 8.1A, 9.1D

### Section 3 - Label Elements



**Signal Word**

Warning

#### Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary statements

P264 - Wash hands, forearms and face thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, face shield, face protection, eye protection

P301+P310 - If swallowed: Immediately call a doctor

P302+P352 - If on skin: Wash with plenty of water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

## Section 4 - Composition and information on ingredients

Component	CAS-No	Weight %
Copper Sulphate Pentahydrate	7758-99-8	4.2
Sulphuric acid	766-93-9	0-1

## Section 5 - First Aid Measures

Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination
Most important symptoms/effects	Skin irritation, respiratory tract irritation, eye irritation, nausea, vomiting and diarrhea.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention in a event of irritation.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First Aid Facilities	Eyewash, safety shower and washroom.
Notes to Physician	Treat symptomatically. Symptoms may be delayed.

## Section 6 - Fire Fighting Measures

### Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray.

### Unsuitable extinguishing Media

No information available.

### Hazardous Combustion Products

#### Specific Hazards Arising from the Chemical

Non-combustible, not considered a significant fire risk, however containers may burn.

Decomposition may produce toxic fumes; sulphur oxides

### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 7 - Accidental Release Measures

### Emergency procedures

Remove all sources of ignition. Take precautionary measures against static discharges.

### Environmental Precautions

See Section 13 for additional ecological information.

Do not flush into surface water or sanitary sewer system.

Clean up all spills immediately, avoid breathing vapours and contact with skin and eyes by using PEP. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up and place in a suitable, labelled container for waste disposal.

**Reference to Other Sections**

Refer to protective measures listed in Sections 9 and 14.

**Section 8 - Handling and Storage**

**Precautions for Safe Handling**

Limit all unnecessary personal contact, wear protective clothing when risk of exposure occurs, use a well ventilated area.

Do not smoke, drink or eat while handling.

Always wash hands with soap and water after handling.

Avoid physical damage to containers.

**Conditions for Safe Storage, Including any Incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

Keep away from heat and sources of ignition.

AS/NZS 2243.10:2004, Safety in Laboratories - Storage of chemicals

**Section 9 - Exposure Controls and Personal Protection**

**Exposure limits**

Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour

No exposure limits have been applied to this product

**Biological limit values**

Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour.

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/ equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

**Personal protective equipment**

<b>Eye Protection</b>	Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications).
<b>Hand Protection</b>	Protective gloves.
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory Protection</b>	Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of respiratory protective devices.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	Prevent product from entering drains. Do not allow material to contaminate ground water system.

**Section 10 - Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Blue coloured liquid
<b>Physical State</b>	Liquid
<b>Odour</b>	No information available

Odour Threshold	No data available
pH	Not applicable
Melting Point/Range	Not applicable
Softening Point	No data available
Boiling Point/Range	100 °C
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable - Liquid
Explosion Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Specific Gravity / Density	No data available
Bulk Density	Not applicable
Water Solubility	Freely soluble
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Component	<b>log Pow</b>
Ethyl alcohol	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidising Properties	No information available
<b>Other information</b>	
Molecular Formula	Not available
Molecular Weight	Not available

## Section 11 - Stability and Reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions
Conditions to Avoid	Avoid contamination of water
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerisation	Will not occur

## Section 12 - Toxicological Information

Information on Toxicological Effects  
Product Information

<b>a) acute toxicity;</b>	
Oral	Category 5
Dermal	Based on available data, the classification criteria are not met
Inhalation	Category 5
<b>(b) skin corrosion/irritation;</b>	Category 3
<b>(c) serious eye damage/irritation;</b>	Based on available data, the classification criteria are not met

Respiratory	Based on available data, the classification criteria are not met
Skin	Category 1
(e) germ cell mutagenicity;	Based on available data, the classification criteria are not met
(f) carcinogenicity;	Based on available data, the classification criteria are not met
(g) reproductive toxicity;	Based on available data, the classification criteria are not met
(h) STOT-single exposure;	Category 2
(i) STOT-repeated exposure;	Category 2
Target Organs	Kidney
(j) aspiration hazard;	Based on available data, the classification criteria are not met
Symptoms / effects, both acute and delayed	Skin irritation, eye irritation, respiratory tract irritation, nausea, vomiting and diarrhea

## Section 13 - Ecological Information

Ecotoxicity effects	Contains a substance which is: Toxic to aquatic organisms. The product contains following substances which are harmful for the environment. - Copper Sulphate
Persistence and Degradability	
Persistence	Persistence is unlikely, based on information available
Degradation in sewage	Contains substances known to be hazardous to the environment or not degradable in waste
Treatment plant	Water treatment plants
Bioaccumulative Potential	Bioaccumulation is unlikely
Mobility	The product under normal conditions is not mobile
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors
Persistent Organic Pollutant	This product does not contain any known or suspected substance
Ozone Depletion Potential	This product does not contain any known or suspected substance

## Section 14 - Disposal Considerations

<b>Waste from Residues / Unused Products</b>	<p>Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.</p> <p>Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations.</p> <p>Assure conformity with all applicable regulations.</p>
<b>Contaminated Packaging</b>	<p>Dispose of this container to hazardous or special waste collection point.</p> <p>Empty containers retain product residue, (liquid and/or vapor), and can be dangerous.</p> <p>Keep product and empty container away from heat and sources of ignition.</p>
<b>Other Information</b>	<p>Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations.</p> <p>Do not dispose of waste into sewer.</p> <p>Waste codes should be assigned by the user based on the application for which the product was used.</p> <p>Can be incinerated, when in compliance with local regulations.</p>

## Section 15 - Transport Information

### IMDG/IMO

UN-No Not Regulated  
Proper Shipping Name  
Hazard Class  
Packing Group

### NZS 5433:2012

UN-No Not Regulated  
Proper Shipping Name  
Hazard Class  
Packaging Group

Component	Hazchem Code
Copper Sulphate Pentahydrate	NA

### IATA

UN-No Not Regulated  
Proper Shipping Name  
Hazard Class  
Packaging Group

Environmental hazards Harmful to aquatic environment  
Special Precautions No special precautions required  
Additional information None known

## Section 16 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	HSNO Approval Number
Z1 Solution	HSR002596

## Section 17 - Other Information

### Key literature references and sources for data

Suppliers safety data sheet, EPA, NZTA, NZ Safety

For a correlation of GHS and HSNO classes and categories refer to:

<http://www.epa.govt.nz/publications/hsnogen-ghs-nz-hazard.pdf>

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure including the use of eye wash and safety showers

vapours and dusts.

**Revision Date:** 17/08/2020

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**Version:** 3

**Owner:** Laboratory Manager

**Disclaimer**

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**End of Safety Data Sheet**