# Safety Data Sheet Environmental Protection Authority

Hazadous Substances (identification) Regulations 2004 (NZ)



Product Name Rebelein Z4	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.
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#### 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
Sulphuric Acid #7664-93-9	HSR001572	6.1D, 6.1E, 6.7A, 6.9A, 8.1A, 8.2B, 8.3A, 9.1C, 9.1D

### **Section 3 - Label Elements**



### **Signal Word**

Danger

#### **Hazard Statements**

H290 - May be corrosive to metals

H303 - May be harmful if swallowed

H314 - Causes severe skin burns and eye damage

H402 - Harmful to aquatic life

## **Precautionary Statements**

P262 - Do not get in eyes, on skin, or on clothing

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P281 - Use personal protective equipment as required

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P363 - Wash contaminated clothing before reuse

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

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

## **Section 4 - Composition and information on ingredients**

Component	CAS-No	Weight %
Sulphuric Acid	7664-93-9	15-20

#### **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	Causes burns by all exposure routes. Product is a corrosive material. Do not induce vomiting or pump stomach. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Inhalation	Remove from exposure, lie down. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration. Call a physician immediately.
Ingestion	Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water. Call a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use, including shoes. Call a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, also under eyelids. Keep eye wide open while rinsing. Immediate medical attention is required.
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

Water spray, CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

#### Unsuitable extinguishing Media

No information available.

#### **Hazardous Combustion Products**

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

The product causes burns of eyes, skin and mucous membranes.

Contact with metals can cause formation of flammable and explosive hydrogen gas.

## 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.

Thermal decomposition can lead to release of irritating gases and vapors.

### **Section 7 - Accidental Release Measures**

#### **Emergency procedures**

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental Precautions**

See Section 13 for additional ecological information. Do not flush into surface water or sanitary sewer system.

#### Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed contaoners for disposal.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 9 and 14.

# **Section 8 - Handling and Storage**

#### **Precautions for Safe Handling**

Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

#### 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. Store in corrosives area.

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

Component	New Zealand WEL
Sulphuric Acid	TWA: 1 mg/m <sup>3</sup>

#### **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.

This product as supplied does not contain any hazardous materials with biological limits estabilsed by the region specific regulatory bodies.

## **Engineering Measures**

Ensure eye wash stations and safety showers are close to the workstation location. 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

Eye Protection	Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications).
Hand Protection	Protective gloves (AS/NZS 2161.1).
Skin and body protection	Long sleeved clothing.
Repiratory Protection	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 repiratory protective devices.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

# **Section 10 - Physical and Chemical Properties**

Information on basic physical and chemical properties

Appearance	Clear Colourless
Physical State	Liquid
Odour	No information available
Odour Threshold	No data available
рН	1.0
Melting Point/Range	10 °C / 50 °F
Softening Point	No data available
Boiling Point/Range	270 °C / 518 °F
Flash Point	No inforamation available
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable - Liquid
Explosion Limits	No data available
Vapour Pressure	No data available
Vapour Density	3.4 (Air = 1.0)
Specific Gravity / Density	1.15
Bulk Density	Not applicable
Water Solubility	Miscible with water, liberates much heat
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Component	log Pow
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
Other information	
Molecular Formula	H <sub>2</sub> SO <sub>4</sub>
Molecular Weight	98.07

# **Section 11 - Stability and Reactivity**

Reactivity	Reacts violently with some bases
Stability	Stable under normal conditions
Conditions to Avoid	Incompatible products, alkalias, readily undergoes violent chemical changes at elevated temperatures and pressures
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerisation	Hazardous polymerisation does not occur

# **Section 12 - Toxicological Information**

Information on Toxicological Effects Product Information

a) acute toxicity;	
Oral	Category 5
Dermal	Based on data available, the classification criteria are not met
Inhalation	Category 4
(b) skin corrosion/irritation;	Category 1B
(c) serious eye damage/irritation;	Category 1
(d) respiratory or skin sensitization;	Based on available data, the classification criteria are not met
Respiratory	Based on available data, the classification criteria are not met
Skin	Based on available data, the classification criteria are not met
(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 1
(i) STOT-repeated exposure;	Category 1
Target Organs	Respiratory tract
(j) aspiration hazard;	Liquid - N/A
Symptoms / effects, both acute and delayed	Product is a corrosive material. Symptoms may include irritation of the nose and throat and laboured breathing. Can cause severe burns of the mouth, throat and stomach if ingested. Corrosive to eyes and skin, can cause severe burns.

# **Section 13 - Ecological Information**

Ecotoxicity effects	Contains substances that are toxic to fish and crustaceans
Persistence and Degradability	
Persistence	Miscible with water Persistence is unlikely, based on information available.
Degradation in sewage	Contains substances known to be hazardous to the environment but is degradable in waste water plants.
Treatment plant	Contains substances known to be hazardous to the environment but is degradable in water treatment plants.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Mobility	The product is water soluble, and may spread in water systems Will likey be mobile in the environment due to its water solubility Highly mobile in soils.
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**

Waste from Residues / Unused

**Products** 

Do not allow into drains or watercourses or dispose of where ground or

surface waters may be affected.

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regu-

lations.

Assure conformity with all applicable regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

Empty containers retain product residue, and can be dangerous.

Keep product and empty container away from heat.

**Other Information** Disposal agencies or waste contractors must comply with the

New Zealand Hazardous Substances (Disposal) Regulations.

Do not empty into the drains. Do not dispose of waste into sewer.

Waste codes should be assigned by the user based on the application for

which the product was used.

Large amounts will affect pH and harm aquatic organisms.

Solutions with low pH-value must be neutralized before discharge.

## **Section 15 - Transport Information**

**IMDG/IMO** 

UN-No UN1830

Proper Shipping Name SULPHURIC ACID greater than 10%

Hazard Class 8
Packing Group II

NZS 5433:2012

UN-No UN1830

**Proper Shipping Name** SULPHURIC ACID greater than 10%

Hazard Class 8
Packing Group II

Component	Hazchem Code
Sulphuric Acid (7664-93-9)	2P

<u>IATA</u>

UN-No UN1830

**Proper Shipping Name** SULPHURIC ACID, greater than 10%

Hazard Class 8
Packing Group ||

**Environmental hazards** Harmful to aquatic environment in large amounts

**Special Precautions**No special precautions required

Additional information None known

# **Section 16 - Regulatory Information**

Component	HSNO Approval Number
Z4 Solution	HSR002596

#### **Section 17 - Other Information**

Legend

**WEL** - Workplace Exposure Limit **TWA** - Time Weighted Average

#### 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. Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Revision Date:** 18/08/2020

**Revision Summary:** Updating toxicology

Version: 3

Owner: Laboratory Manager

#### Disclaimer

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**End of Safety Data Sheet**