Safety Data Sheet
Environmental Protection Authority

Hazadous Substances (identification)
Regulations 2004 (NZ)

Product Name **Rebelein Z2**	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
Potassium sodium tartrate #6381-59-5	N/A	N/A
Sodium hydroxide # 1310-73-2	HSR001576	6.1D, 6.1E, 8.1A, 8.2B, 8.3A, 9.1D

Section 3 - Label Elements

Signal Word Danger

Hazard statements
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.

Precautionary statements
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P234 - Keep only in original container
P301+P330+P331- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.
P390 - Absorb spillage to prevent material damage.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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 %
Potassium sodium tartrate	6381-59-5	25
Sodium hydroxide	1310-73-2	8

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. Possible perforation of stomach or esophagus should be investigated. Do not induce vomiting or stomach pumping. Ingestion causes severe swelling, severe damage of the delicate tissue and danger of perforation.
Inhalation	Move to fresh air. Do not use mouth to mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper medical device.
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.
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
Water spray or fog, foam, dry chemical powder or carbon dioxide

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 vapours.

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
Ensure adequate ventilation

Environmental Precautions
See Section 13 for additional ecological information.

Clean up all spills immediately.
Avoid breathing vapours and contact with eyes and skin.
Control personal contact by using PEP.
Clean area with water and dispose through sanitary system

Reference to Other Sections
Refer to protective measures listed in Sections 9 and 14.

Section 8 - Handling and Storage

Precautions for Safe Handling
Avoid personal contact, including inhalation.
Wear protective clothing when risk of exposure occurs.
Use in a well ventilated area.
To avoid violent reactions always add material to water not water to material.
Avoid damage to containers.
Avoid contact with incompatible materials.
Do not smoke, drink or eat when handling.
Always wash hands with soap and water after use.
Work clothes should be laundered separately.

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. Keep in a corrosive 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
Sodium hydroxide	Ceiling: 2 mg/m^3

Biological limit values
This product, as supplied, does contain hazardous materials with biological limits:
LC50 Fishes 613 mg/L
EC50 Daphnia 545 mg/L
but is rapidly degradable

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
Ensure that eyewash stations and safety showers are close to the workstation location

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, neoprene (AS/NZS 2161.1). Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
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	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

Appearance	Clear Colourless
Physical State	Solution
Odour	No information available
Odour Threshold	No data available
pH	Not applicable
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	No data available
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	soluble
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	No data available
Molecular Weight	No data available

Section 11 - Stability and Reactivity

Reactivity	None known, based on information available.
Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks, metals
Hazardous Decomposition Products	None under normal use conditions.
Hazardous Polymerisation	No information available.

Section 12 - Toxicological Information

Information on Toxicological Effects
Product Information

a) acute toxicity;	
Oral	Category 4
Dermal	Category 5
Inhalation	Based on available data, the classification criteria are not met
(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;	No data available
(f) carcinogenicity;	There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	No information available
(j) aspiration hazard;	No data available
Symptoms / effects, both acute and delayed	Product is a corrosive material. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Do not induce vomiting or pump the stomach.

Section 13 - Ecological Information

Ecotoxicity effects	Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants
Persistence and Degradability	
Persistence	Soluble in water. Persistence is unlikely, based on information available.
Degradation in sewage	Contains no substances known to be hazardous to the environment or that are not degradable in waste
Treatment plant	Soluble in water treatment plants, no known hazardous substances
Bioaccumulative Potential	Bioaccumulation is unlikely
Mobility	This product is water soluble, and may spread in water systems. Will likely 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 regulations. Assure conformity with all applicable regulations
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.
Other Information	Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations. 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.

Section 15 - Transport Information

IMDG/IMO

UN-No	UN1824
Proper Shipping Name	Sodium Hydroxide Solution
Hazard Class	8
Packing Group	II

NZS 5433:2012

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Component	Hazchem Code
Sodium Hydroxide #1310-73-2	2R

IATA

UN-No	UN1824
Proper Shipping Name	Sodium Hydroxide Solution
Hazard Class	8
Packing Group	II

Environmental hazards	Slightly harmful to aquatic organisms
Special Precautions	Corrosive, wear appropriate clothing
Additional information	None known

Section 16 - Regulatory Information

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

Component	HSNO Approval Number
Z2 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.
Chemical incident response training.
Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Revision Date: 17/08/2020

Revision Summary: Update toxicology

Version: 3

Owner: Laboratory Manager

End of Safety Data Sheet