

Safety Data Sheet

Environmental Protection Authority

Hazardous Substances (identification)
Regulations 2004 (NZ)



Product Name
Rebelein Z3

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 Iodide #7681-11-0	HSR003718	6.5B, 9.1B
Sodium Hydroxide #1310-73-2	HSR001587	6.1E, 6.3A, 6.4A

Section 3 - Label Elements



Signal Word

Warning

Hazard statements

H303-Harmful if swallowed
H315 - Causes skin irritation.
H317 -May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P362 - Take off contaminated clothing and wash before reuse.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation occurs: Get medical advice/attention.

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

Section 4 - Composition and information on ingredients

Component	CAS-No	Weight %
Potassium Iodide	7681-11-0	30
Sodium Hydroxide	1310-73-2	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	Swallowing may cause irritation of the mouth, throat and stomach. Asthma-like symptoms may continue for some time after high exposure. Material may produce severe irritation to the eye causing pronounced inflammation. The material may cause severe skin irritation after prolonged or repeated exposure.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids, 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

There is no restriction on the type of extinguisher which may be used.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing Media

No information available.

Hazardous Combustion Products

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to the 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.

Use personal protective equipment.

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

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.
Store in undamaged containers in a cool, dry, well ventilated area.
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.
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 not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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

Eye Protection	Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications).
Hand Protection	Protective gloves -natural rubber, nitrile rubber, neoprene, PVC (AS/NZS 2161.1).
Skin and body protection	Long sleeved clothing.
Respiratory 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 respiratory 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	Liquid
Odour	Odourless
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	No data available
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	miscible
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Component	log Pow
Ethyl alcohol	Not applicable
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	Keep away from incompatible products and excess heat.
Hazardous Decomposition Products	None under normal use conditions.
Hazardous Polymerization	Will not occur.

Section 12 - Toxicological Information

Information on Toxicological Effects Product Information

a) acute toxicity;	
Oral	Category 5
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met
(b) skin corrosion/irritation;	Based on available data, the classification criteria are not met
(c) serious eye damage/irritation;	Based on available data, the classification data are not met
(d) respiratory or skin sensitization;	
Respiratory	No data available
Skin	Category 1
(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	Swallowing may cause irritation of the mouth, throat and stomach. Asthma-like symptoms may continue for some time after high exposure. Material may produce severe irritation to the eye causing pronounced inflammation. The material may cause severe skin irritation after prolonged or repeated exposure.

Section 13 - Ecological Information

Ecotoxicity effects	Contains a substance known to be harmful to the environment: Potassium Iodide
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 not degradable in waste.
Treatment plant	Soluble in Water treatment plants, no known hazardous substances.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Mobility	The product is water soluble, and may spread in water systems. Will likely to 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. Do not re-use empty containers.
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.

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	
Packing Group	

Component	Hazchem Code
Sodium Hydroxide	2R

IATA

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

Environmental hazards	Can be harmful to aquatic organisms in large quantities
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
Z3 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.

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Version: 3

Owner: Laboratory Manager

Disclaimer

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End of Safety Data Sheet