

Safety Data Sheet

Environmental Protection Authority

Hazardous Substances (identification)
Regulations 2004 (NZ)



Product Name
Rebelein Z5

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 - 15/11/17
New Zealand	

Section 2 - Hazard(s) identification

Hazardous Components (Specific Chemical Identity; Common Name(s))	HSNO for components	Classification
Starch #9005-84-9	NA	NA
Potassium Iodide #7681-11-0	HSR006623	6.5B
Sodium Hydroxide #1310-73-2	HSR001587	6.1E, 6.3A, 6.4A
Thymol #89-83-8	HSR003803	6.1D, 8.2C, 8.3A, 9.1D, 9.3C

Section 3 - Label Elements



Signal Word

Warning

Hazard statements

H303 - Harmful if swallowed

H317 - May cause an allergic skin reaction

Precautionary statements

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

Section 4 - Composition and information on ingredients

Component	CAS-No	Weight %
Starch	9005-84-9	1
Potassium Iodide	7681-11-0	1-2
Sodium Hydroxide	1310-73-2	0-1
Thymol	89-83-8	pinch

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	Can cause respiratory, skin and eye irritation or allergic reaction.
Inhalation	Remove to fresh air, get medical attention if necessary.
Ingestion	Immediately give a glass of water. First aid is generally not required. If in doubt contact a physician.
Skin Contact	Wash exposed area with soap and water. Seek medical attention in the event of irritation.
Eye Contact	Immediately flush eyes with plenty of water, if irritation continues seek medical attention.
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 media suitable for surrounding area.

Unsuitable extinguishing Media

None known

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 of; carbon dioxide, hydrogen iodide, other pyrolysis products typical of burning organic material.

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

Clean up immediately.

Avoid breathing vapors and contact with skin and eyes.

Control personal contact with the substance, by using protective equipment.

Wipe up and place in a suitable, labelled container for waste disposal.

Environmental Precautions

See Section 12 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 containers 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

Limit all unnecessary personal contact.

Use in a well ventilated area.

Always wash hands with soap and water after handling.

Store in undamaged containers in a cool, dry, well ventilated area.

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 information available.

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 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	No special equipment for minor exposure, otherwise: 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, barrier cream.
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	No information available.

Section 10 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Colourless
Physical State	Liquid
Odour	Odourless
Odour Threshold	No data available
pH	7
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	No data available
Flash Point	No information 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	1.1
Bulk Density	Not applicable
Water Solubility	Soluble in water
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 information available
Molecular Weight	No information available

Section 11 - Stability and Reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions
Conditions to Avoid	Incompatible products, excess heat
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerisation	Hazardous polymerisation 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 criteria are not met
(d) respiratory or skin sensitization;	
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 data available, the classification criteria are not met
(g) reproductive toxicity;	Based on available data, the classification criteria are not met
(h) STOT-single exposure;	Based on available data, the classification criteria are not met
(i) STOT-repeated exposure;	Based on available data, the classification criteria are not met
Target Organs	No information available
(j) aspiration hazard;	Based on available data, the classification criteria are not met
Symptoms / effects, both acute and delayed	Can cause respiratory, skin and eye irritation or allergic reaction

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	No data available for all ingredients.
Degradation in sewage	No data available for all ingredients.
Treatment plant	No data available for all ingredients.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Mobility	The 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

Decontaminate packaging by washing out and recycle where possible, consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

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.

Section 15 - Transport InformationIMDG/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
Starch (#9005-84-9)	NA
Potassium Iodide (#7681-11-0)	NA
Sodium Hydroxide (#1310-73-2)	2R
Thymol (#89-83-8)	NA

IATA

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

Environmental hazards No hazards identified
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
Z5 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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet