HYGENIE PURE MB115 MIXED BED DEIONISING RESIN

SAFETY DATA SHEET - SDS VERSION 1.0, 1st FEBRUARY 2021

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	Hygenie Pure MB115 Mixed Bed Deionising Resin
Recommended use:	Use in any non regenerable mixed bed application where reliable production of the highest quality water is required and where "as supplied" resin must have an absolute minimum of ionic and nonionic contamination.
Supplier name:	Hygiene Direct
Address:	5/43 Fremlin Place, Avondale, Auckland, New Zealand.
Phone:	+64 0800 828 4426
Emergency Telephone:	New Zealand: 0800 764 766 (NZ NATIONAL POISON CENTRE). International: +643 479 7227.

2. HAZARD IDENTIFICATION

Hazard Classification: **NON HAZARDOUS** according to GHS (Globally Harmonised System of Classification and Labelling of Chemicals) criteria.
Signal word: Warning.
Symbol/s: Exclamation Mark

Hazard Statement

- H316: Causes mild skin irritation
- H320: Causes eye irritation

Precautionary Statement

- P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P233: Keep container tightly closed.
- P234: Keep only in original container.
- P270: Do not eat, drink or smoke when using this product.
- P281: Use personal protective equipment as required.
- P402: Store in a dry place.
- P403: Store in a well-ventilated place.
- P404: Store in a closed container.
- P352: Wash with plenty of soap and water.

Other hazards:
• Prevention: Wear eye protection/ face protection.
• Response: if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/ physician
• Storage: See section 7 for information on Safe Storage

3. COMPOSITION / INFORMATION ON INGREDIENTS

At the levels used in the product, these ingredients are considered either hazardous or dangerous goods according to GHS criteria:

INGREDIENT	CAS No.	PROPORTION (%)
Cross linked polystyrene with sulphonic acid group	69011-20-7	45-53%
Water	7732-18-5	47-55%

Cross linked polystyrene with triethylamine functionality	60177-39-1	40% maximum
Water	7732-18-5	60% maximum

4. FIRST AID MEASURES

• General information: Get medical advice/attention if you feel unwell.
• Inhalation: No specific first aid measures noted
• Eye Contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove any contact lenses. Get medical attention if any discomfort continues
• Skin Contact: Wash skin with soap and water • Ingestion: Immediately rinse mouth and drink plenty of water (200-300 ml). Large quantities: Get medical attention if irritation persists
• Description of Most Important Symptoms: No specific data.
• Recommendations For Immediate Medical Care: No known significant effects or critical hazards.

5. FIRE FIGHTING METHODS

• Suitable Extinguishing media: With foam, carbon dioxide, dry powder or water fog
• Unsuitable extinguishing media: -Not applicable
• Specific Hazard in case of fire / Combustion Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors
• Special protective equipment and precautions for fire fighters: For fires in enclosed areas, wear self-contained breathing apparatus with full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

• Personal precautions: Keep people away, Spillage of material may cause a slip hazard.
• Personal Protective Equipment: Chemical Resistance Hand glove, Dust Mask, Safety Shoes etc.
• Environmental precautions: Prevent from entering in to soil, ditches, sewers, waterways and/or ground water.
• Methods and materials for cleaning up: Sweep up as much as possible and transfer to plastic containers for recovery or disposal Reference to other sections See section 7 for information on Safe Handling. See section 8 for information on Personal Protective Equipment. See section 13 for information on Disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes and prolonged skin contact. Static electricity can accumulate on dry beads. Leave room for expansion as dry resin swell upon wetting and/or changing ionic form. Equipment construction material should be compatible with feed, referent, ionic form and effluent of the ion exchange Avoid contact with eyes. Avoid generating and breathing dust. Wash thoroughly after handling. Keep container closed. Good housekeeping and controlling of dusts are necessary for safe handling of product.
• Condition for safe storage: Store at temperatures above 0 °C Store at temperatures below 40 °C
Keep in original container
Keep container tightly closed to prevent the loss of water
Store away from incompatible materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Information on the system design: In case of regular work, provide local exhaust ventilation.
• Occupational Exposure limits: No exposure limits noted for mixture. Consult local authorities for recommended exposure limits. OSHA Permissible Exposure Limits (PELs) – No exposure limit value known.
ACGIH Threshold Limit Values (TLVs) - No exposure limit value known.
• Biological Limit : N/A • Appropriate engineering controls: Use in well ventilated area with local exhaust.
• Personal protective equipment : Respiratory Protection: If engineering controls do not maintain air borne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Eye Protection: Wear safety glasses with side shields (or goggles).
Hand Protection: Chemical resistant gloves. Skin Protection: Use skin protection. It is a good industrial hygiene practice to minimize skin contact.
Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Faint to dark grey colour beads
Odour:	Odourless
pH:	Neutral aqueous slurry
Specific gravity:	1.20 (SAC H) & 1.07 (SBA-OH) Approx.
Boiling point (°C):	Not available

Flammability:	LEL (%): Not available UEL (%): Not available
Flash point:	Not available
Vapour pressure/density:	Not available
Relative density:	Not available
Auto ignition temperature:	Not available
Solubility in water:	Insoluble
Shelf life:	Not available

10. STABILITY AND REACTIVITY

• Reactivity: Not available.
• Chemical Stability: Stable under recommended storage condition see storage, section 7
• Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors
• Possibility of Hazardous Reactions: Not available
• Conditions to avoid: Considered stable under normal Conditions - Avoid heat
• Materials to avoid / Incompatible Materials : Incompatible with strong oxidizing substances. Contact with strong oxidizers, especially nitric acid, may low molecular weight organics that may form explosive mixtures

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
• Ingestion: No specific data.
• Inhalation: No specific data.
• Skin Contact: May irritate Skin contact.
• Eye contact: May irritate eyes contact.

• Chemical and Toxicological Characteristics
• LD50 : >5000 mg/kg Oral (rat)
• LD50 : >5000 mg/kg Dermal (rabbit)
• LC50: Not applicable.
• Acute toxicity: No evidence of acute toxicity
• Sub chronic/ Chronic Toxicity : No evidence
• Short and Long term exposure : No evidence
• Carcinogenicity: No evidence of carcinogenic effects
• Teratogenicity : No evidence of reproductive effects
• Mutagenicity : No evidence of mutagenic effects
• Summary Comments : May cause temporary / slightly eye irritation or skin irritation

12. ECOLOGICAL INFORMATION

Aquatic toxicity : No data available
• Mobility in soil : The mixture is insoluble in water and will sediment in water systems
• Persistence and degradability : The mixture is not readily biodegradable
• Bioaccumulative potential : Potential to bioaccumulation is low
• Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Spill/leak procedures: Isolate spill area to prevent falls as material can be a slipping hazard. Avoid contact with eyes and skin. Material is heavier than water and has limited water solubility. It will collect on the lowest surface.
• Cleanup: Clean up floor area. Sweep up.
Regulatory Requirements: Follow all applicable Federal, State, Local, or Provincial regulations.
• Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled runoff and contact with soil, waterways, drains. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.
• Special precautions: Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

NOT Classified DANGEROUS GOODS by the by the NZ Transport Agency - Land Transport Rule (2005).

UN number: Not applicable.
UN proper shipping name: Not applicable.

Transport hazard class: Ion exchange resins as supplied are not classified as hazardous for transport.
Classification for ROAD and RAIL transport: Not regulated (Not dangerous for transport)
Classification for SEA transport: Not regulated (Not dangerous for transport)
Packing group: Not applicable.
Marine Pollutant :- No
Environment Hazard : No

15. REGULATORY INFORMATION

Country/Region: New Zealand
Status: Not Classified as Hazardous according to GHS-7
Group Standard: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

16. OTHER INFORMATION

SDS issue number: 1.0 - This issue number replaces all previous issues.
SDS issue date: 01/02/2021.
Reason(s) for issue: New product.
HSNO classifications:
In any event, the review and, if necessary, the re-issue of a SDS shall be no longer than 5 years after the last date of issue.

17. LEGEND

EPA Envronmental Protection Authority (NZ)
GHS Globally Harmonised System
NZTA: NZ Transport Agency
PPE Personal Protective Equipment
SDS Safety Data Sheet
STEL Short Term Exposure Limit. A 15-min TWA exposure, (don't exceed during a working day, even if the 8-hr TWA avg is within the TWA exposure standard. Exposures at the STEL should not exceed 15-min and should not be repeated more than 4 times per day. There should be at least 60-min between successive exposures at the STEL.
TLV Threshold Limit Value. Refers to airborne concentrations of substances or levels of physical agents to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.
TWA Time Weighted Average. The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

This SDS has been prepared from current technical data (EPA and Worksafe NZ guidelines) & summarises at the date of issue our best knowledge of the health and safety information of the product and in particular how to safely handle and use the product in the workplace, If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. This SDS may only be reproduced in full, as summaries/excerpts may not contain all the relevant information and thus are not permitted.

End of SDS