



NATIONWIDE DI WATER SOLUTIONS

The Clear Choice

VIRGIN MIXED BED RESINS

1. Identification of the substance and of the company/undertaking.

Identification of the substance: MB-11 and MB-115

Chemical Name: Ion exchange resin, mixture of Hydroxide Form Anion Exchange Resin and Hydrogen Form Cation Exchange Resin. Polystyrene sulphonate acid, polyvinyl benzyl ammonium hydroxide.

Use of the substance: Ion Exchange

Distributor Information:

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2. Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Hazard summary

Physical hazards	Not classified
Health hazards	Serious eye damage/eye irritation Category 2A
OSHA defined Hazards	Not classified

2.2 Label Elements



Signal Word	Warning
Hazard Statements	Cause serious eye irritation
Precautionary Statements	
Prevention	Wash thoroughly after handling. Wear protective gloves/protective clothing/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. If eye irritation persists: Get medical advice/attention.
Storage	Store away from incompatible materials

Disposal	Dispose of contents/container in accordance with local/regional/national/ international regulations
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2.3 Hazard not otherwise classified (HNOC): None Known

3. Section 3

Composition/Ingredients:

Polyvinyl benzyl trimethyl Ammonium in the hydroxide form
Classification:

Cas # Concentration

Cas# 69011-18-3, Content: 20-30%
DSD: Xi;R36
CLP: Eye Irrit.2;H319

Polystyrene sulfonic acid
Classification:

CAS# 69011-20-7 Content:20-30%
DSD: Xi;R36
CLP: Eye Irrit. 2;H319

Water

CAS# 7732-18-5, Content 40-60%

4. First Aid and Control Measures

Contact with eyes:

Immediately wash out with plenty of water for at least 5 minutes. Get medical attention if any discomfort continues.

Contact with skin:

Wash affected area with soap and plenty of water.

Ingestion:

Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Don't induce vomiting seek medical advice if any discomfort continues
Move into fresh air, seek medical advice if any discomfort continues

Inhalation:

Most important symptoms and effects Both acute and delayed
General Information

Eye contact: Contact may cause irritation with redness, tearing, pain, and or blurred vision.

If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

5. Fire-fighting measure

Flammable properties

Hazardous combustion products

NFPA Rating Fire=1

Monomers, residual organics, carbon and sulfur oxides.

Extinguishing Media:

Foam, CO2, Talc, Dry powder or water fog

Unsuitable extinguishing media

Not applicable

Special Fire Fighting Procedures:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Unusual fire and explosive hazards

Not available

Fire Fighting equipment/instruction

In the event of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

General Fire hazard

Wear self-contained breathing apparatus and protective clothing

The product is not flammable. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

6. Accidental Release measures

Keep people away

Spillage causes slippery surface

Environmental precautions

Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.

Do not allow to enter drains, sewers and water courses.

Methods and materials for cleaning up.

Avoid the generation of dusts during clean up.

Large Spills: Dike the spilled material, where this is possible.

Sweep up as soon as possible and transfer to plastic containers for recovery or disposal.

Small spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use

7. Handling and Storage

Handling

Avoid contact with eyes and prolonged skin contact. Wear protective clothing described in section 8 of this safety data sheet. Observe good industrial hygiene practices. Wash thoroughly after handling. Avoid release to the environment.

Storage: Keep containers tightly closed in a dry, cool and well ventilated place.

Store at temperature above 0 C

Do not store at temperature above 40 C

Avoid dehydration (when rewetted the resin volume may increase and cause a rupture of the packaging)

Keep only in the original container

Store away from incompatible materials

8. Exposure controls/personal protection

Exposure limits

No exposure limits noted for substances

Exposure controls

Provide adequate ventilation

Occupational exposure controls

No exposure limits noted for ingredients

Biological limit values: No biological exposure limits noted for the ingredients. Individual protection measures, such as personal protective equipment.

Eye/face protection: If contact is likely, safety glasses with side shields are recommended.

Skin Protection:

Hand Protection: Protective gloves should be worn to prevent skin contact.

Breakthrough time: Special recommendations > 10 minutes

Suitable gloves can be recommended by the glove supplier

Other

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection: No personal respiratory protective equipment is normally required.

Thermal hazard: None known

Hygiene Measure

Avoid contact with eyes. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major spillages.

9. Physical/Chemical Data:

Appearance & Odor:	Mixture of white, cream, brown beads. Odorless
Physical State	Solid(bead)
PH:	Acid/alkaline
Melting Point	Not applicable
Freezing Point	Not applicable
Boiling Point:	Not applicable
Flash Point:	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor Pressure	Like water
Vapor Density	Not applicable
Relative Density:	1.05-1.28
Solubility in Water:	Insoluble
Evaporation Rate	Not applicable
Viscosity	Not applicable
Explosive properties	Not applicable
Other information	None

10. Stability and Reactivity Data

Stability:	Material is stable under normal conditions.
Conditions to Avoid:	Heat, sparks, flames elevated temperature.
Materials to avoid contact with:	Incompatible with strong oxidizing agents (i.e. nitric acid), may produce low molecular weight organics that may form explosive mixtures.
Hazardous decomposition products	Thermal decomoposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Acute toxicity	May cause discomfort if swallowed
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation

Germ cell mutagenicity	Not classified
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGH, NTP, or OSHA. Not classified.
OSHA Specifically Regulated Substances(29CFR 1910.1001-1050)	Not listed
Reproductivity Toxicity	Not classified
Specific target organ toxicity-single exposure	Inhalation of dust may cause respiratory irritation
Specific target organ toxicity - repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic effects	Chronic effects are not expected when this product is used as intended
Further information	No other specific acute or chronic Health impact noted.

12. Ecological information

Toxicity	No test data available for the product
Persistence and degradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Mobility in general	No data available
Other adverse effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national regulations. Dispose of in accordance with local regulations. Hazardous waste code: Not regulated.

Waste from residues/unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. No special precautions.

14. Transport information

DOT - Not regulated as dangerous goods.

IATA - Not regulated as dangerous goods.

IMDG - Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not Available.

15. Regulatory information

15.1 US federal regulations

this product is not known to be a "Hazardous Chemical" as defined by the **OSHA Hazard Communication Standard, 29CFR 1910.1200**

All components are on the U.S EPA TSCA Inventory List.
CERCLA/SARA Hazardous Substances Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not Regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This solution may be subject to SARA 311/312 and CERCLA based on the threshold quantities of individual components.

15.2 Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance.

Not listed

SARA 311/312 Hazardous Chemical

Yes

SARA 313(TRI reporting)

Not regulated

15.3 Other federal regulations

Clean Air Act(CCA) section 112 Hazardous Air Pollutants(HAPs) list

Not regulated

Clean Air Act (CAA) Section 112 □ Accidental Release Prevention (40CFR 68.130) - Not Regulated

Safe Drinking Water Act(SDWA)

Not regulated

15.4 US state regulations

This product does not contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

US Massachusetts RTK - Substance List

Not regulated

US New Jersey Worker and Community Right-to-know Act

Not listed

US Pennsylvania Work and Community Right-to-Know Law

Not listed

US Rhode Island RTK

Not regulated

US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986(Proposition 65): This material is not known to contain any chemical currently listed as carcinogens or reproductive toxins.

15.5 International Inventories.

Country	Inventory Name	On inventory (yes or no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Commercial Chemical Substances (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippine	Philippine Inventory of Chemicals and Chemical Substances (PIC)	Yes
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates this product complies with the inventory requirements administered by the governing country. A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country.

15.6 Other International Regulations.

REACH Registration Number: This mixture is exempted from Registration according to the provision of Title II and VI and Article 2(9) of REACH.

Canadian Regulations

This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations (CPR)

WHMIS status: Controlled

WHMIS classification: D2B-Other Toxic Effects - Toxic

WHMIS Labeling:



16. Other information

HAZARD RATINGS

Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA 1	1	0	0

Hazard Rating: 0 - Minimal; 1- Slight; 2- Serious; 4- Server

NFPA Label colored diamond code: Blue-Health, Red-Flammability; Yellow - Instability; White - Special Hazard

Hazard Rating: 0-Minimal; 1-Slight; 2- Moderate; 3- Serious; 4- Severe

HIMIS Label colored bar code: Blue - Health, Red - Flammable; Orange - Physical Hazard; White - Special

Relevant Hazard Statements(H319) Causes serious eye irritation

Relevant R phrases(R36) Irritating to eyes.