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SAFETY DATA SHEET HYDROFILL[™] Mixed Bed Resin

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 02/02/2016

1.1. Product identifier

Product name Mixed Bed Resin

Article no. NA570971, NA570974, NA573102

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function Ion exchange
Use of the substance/preparation Demineralization

Uses advised against No specific uses advised against are identified.

The chemical can be used by the Yes

general public

1.3. Details of the supplier of the safety data sheet

Company name Caleffi North America, inc
Office address 3883 W Milwaukee Rd

Postcode 53208

City Milwaukee, WI

Country
Tel
H1 414-238-2360
Fax
H2 414-238-2366
E-mail
Website
United States of America
H1 414-238-2360
ask.us@caleffi.com
http://www.caleffi.com

1.4. Emergency telephone number

Identification comments For Hazardous Materials [or Dangerous Goods] Incident - Spill, Leak, Fire,

Exposure, or Accident - Call CHEMTREC Day or Night.

Within USA and Canada: 1-800-424-9300 CCN726541 or +1 703-527-3887

(collect calls accepted).

Within Mexico, please call + 1 414 238 2360 (collect calls accepted) between

8:00 am - 5:00 pm Eastern Time Zone (CST/CDT).

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

GHS Classification, Comments Not classified as hazardous according to OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

2.2. Label elements

Composition on the label Anion exchange resin: 40 % wt/wt, Cation exchange resin: 40 % wt/wt

Precautionary statements P102 Keep out of reach of children.

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

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2.3. Other hazards

Physico-chemical effects Spilled resin is a slipping hazard.

Health effects Resin can cause eye and skin irritations, avoid eye and skin contact.

Environmental effects Cf. section 12 for information on ecology.

Symptoms and effects of potential

misuse

No information required.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Anion exchange resin (US)	CAS no.: 69011-18-3 Synonyms: Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminium N,N,N-trimethyl hydroxide IUPAC name: Benzene, diethenyl, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylaminequaternized, hydroxide	Eye Irrit. 2; H319	60 % wt/wt
Cation exchange resin (US)	CAS no.: 69011-20-7 Synonyms: Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated IUPAC name: Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	Skin Irrit. 2; H315 Eye Irrit. 2; H319	40 % wt/wt
Description of the mixture	Spherical particles 0,2-0,4 mm. Solid. Amber. 0% of the mixture consists of ingredients(s) of unknown toxicity.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General Place unconscious person on the side in the recovery position and ensure

breathing can take place. If medical advice is needed, have product container

or label at hand.

Inhalation Due to the physical form the risk of inhalation is minimal. IF INHALED: Move

into fresh air and keep at rest.

Skin contact Wash skin with soap and water.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any

contact lenses and open eyelids widely. If irritation persists: Seek medical

attention and bring along these instructions.

Immediately rinse mouth and drink plenty of water (7-10 fl. oz.). Never give

liquid to an unconscious person. DO NOT INDUCE VOMITING! If medical

advice is needed, have product container or label at hand.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects Cf. section 11.1 - information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes Decontamination, symptomatic treatment. No special antidote known.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding

materials.

Improper extinguishing media Water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

This product is not flammable.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons. Organic

decomposition products. Sulfur dioxide (SO2). Sulfur trioxide (SO3).

5.3. Advice for firefighters

Personal protective equipment In case of inadequate ventilation wear respiratory protection. Use personal

protective equipment as required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid dust formation. Avoid contact with eyes and skin.

Personal protection measures Ensure suitable personal protection (including respiratory protection) during

removal of spillages in a confined area.

Hazardous combustion products Cf. section 5

6.1.2. For emergency responders

For emergency responders In case of inadequate ventilation wear respiratory protection. Use personal

protective equipment as required.

6.2. Environmental precautions

Environmental precautionary

Avoid discharge into drains, water courses or onto the ground.

measures

6.3. Methods and material for containment and cleaning up

Cleaning method Sweep up or pickup with an industrial vacuum cleaner, store in closed

container for disposal.

6.4. Reference to other sections

Other instructions Cf. section 8 for personal protection, and section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Observe good chemical hygiene practices. Avoid contact with eyes and

prolonged skin contact. Avoid eating, drinking and smoking when using the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store at moderate temperatures in dry, well ventilated area.

Conditions for safe storage

Requirements for storage rooms

Storage in gateways, passages, stairways, hallways open to public, roofs,

attics, cellars and workrooms is not advisable.

Advice on storage compatibility No incompatibilities known.

7.3. Specific end use(s)

Recommendations Cf. section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL / PNEC

and vessels

Recommended monitoring NIOSH 0500: Total particulates not otherwise regulated.

procedures OSHA PV2121: Gravimetric determination.

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8.2. Exposure controls

Precautionary measures to prevent exposure

Organizational measures to prevent

exposure

exposure

Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift.

Use engineering controls to reduce air contamination to permissible exposure

level.

Respiratory protection

Technical measures to prevent

Respiratory protection Under normal conditions of use respiratory protection should not be required.

In case of inadequate ventilation or risk of inhalation of dust, use suitable

respiratory equipment with particle filter (type P2).

Hand protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Eye / face protection

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably

probable.

Skin protection

Skin protection (except hands)

Generally regular work clothing sufficient.

Hygiene / Environmental

Specific hygiene measures No specific hygiene procedures noted, but good personal hygiene practices

are always advisable. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Spherical particles 0,2-0,4 mm. Solid.

Color Amber.

Odor Almost odorless.

Comments, pH (as supplied) No data recorded.
pH (aqueous solution) Value: 6-8

Method of testing: aqueous suspension

Comments, Melting point / melting

range

No data recorded.

Comments, Boiling point / boiling No data recorded.

range

Flash point Value: > 230 °C

Comments, Flash point Dry product beginning to inflame

Comments, Evaporation rate

Flammability (solid, gas)

Comments, Vapor pressure

Comments, Vapor density

Specific gravity

No data recorded.

No data recorded.

No data recorded.

Value: 1,2 g/cm³

Test temperature: 20 °C

Solubility in water Unlimited miscible
Spontaneous combustibility Value: > 500 °C
Comments, Decomposition No data recorded.

temperature

Comments, Viscosity

Explosive properties

Oxidising properties

No data recorded.

Not explosive

Not oxidizing

9.2. Other information

Softening point Comments: No data available Content Of Voc Comments: No data available

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Physical hazards

Comments, Particle size No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable in normal conditions.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
No hazardous reactions under regular storage and handlings conditions known.

10.4. Conditions to avoid

Conditions to avoid Heating.

10.5. Incompatible materials

Materials to avoid Strong oxidizing substances.

10.6. Hazardous decomposition products

toxic gases or vapors. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). Sulphurous gases (SOx). Organic decomposition

products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Potential acute effects

Inhalation No specific health warnings noted.

Skin contact No specific health warnings noted. Prolonged contact may cause redness and

irritation.

Eye contact No specific health warnings noted. Prolonged contact may cause redness

and/or tearing.

Ingestion No specific health warnings noted. The product causes irritation of mucous

membranes and may cause abdominal discomfort if swallowed. Ingestion may

cause irritation of the gastrointestinal tract, vomiting and diarrhea.

Aspiration hazard Depending on the product's properties - solid spherical particles of 0.2-0.4

mm - aspiration is technically not feasible.

Delayed effects / repeated exposure

Sensitization No specific health warnings noted.

STOT-single exposure

No data available, probably no sub chronic toxicity

STOT-repeated exposure

No data available, probably no chronic toxicity

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity

No specific health warnings noted.

Mutagenicity

No specific health warnings noted.

Teratogenic properties

No specific health warnings noted.

Reproductive toxicity

No specific health warnings noted.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bio accumulative potential

Bio accumulative potential

The product is not bio accumulating.

12.4. Mobility in soil

Mobility Not relevant, due to the form of the product.

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12.5. Results of PBT and vPvB assessment

PBT assessment results This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Comments, Ozone depletion

potential

Ozone depletion potential not known

Comments, Photochemical ozone

creation

Ozone formation potential not known

Comments Global warming potential Global greenhouse effect not known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of

Dispose of waste and residues in accordance with local authority

disposal

requirements. No specific disposal method required.

Relevant waste regulation USA: Federal waste regulation: 40 CFR 261

Canada: Canadian Environmental Protection Act (CEPA 1999; s.s..1999, c.33)

Part 7 Controlling Pollution and Managing Wastes.

Mexico: Regulation of the General Law of Ecological Balance and

Environmental Protection in Hazardous Waste.

Product classified as hazardous

waste

No

Nο

Packaging classified as hazardous

waste

SECTION 14: Transport information

14.1. UN number

Comments No recommendation given.

14.2. UN proper shipping name

Comments No recommendation given.

14.3. Transport hazard class(es)

Comments No recommendation given.

14.4. Packing group

Comments No recommendation given.

14.5. Environmental hazards

Comments No recommendation given.

14.6. Special precautions for user

Special safety precautions for user No recommendation given.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name No recommendation given.

Additional information.

Additional information. The product is not covered by international regulation on the transport of

dangerous goods (IMDG, IATA, ADR/RID).

ADR / RID - Other information

ADR Other information No recommendation given.

ADN - Other information

Other information No recommendation given.

IMDG / ICAO / IATA Other information

IMDG Other information No recommendation given.

SECTION 15: Regulatory information

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

References (laws/regulations)

International Inventories

USA: All compounds are listed on the TSCA Inventory Canada: All components are listed either on the DSL or NDSL.

Regulations of the United States of America:

29 CFR 1910.1200, Subpart Z (Toxic and Hazardous Substances), App. A (Health Hazards), App B (Physical Criteria), App C (Allocation of Label Elements), App D (Minimum Information for a SDS), App E (Trade Secret), App F (Carcinogenicity).

US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

This product does not contain any substances regulated by state right-to-know regulations.

Regulations of Canada:

Workplace Hazardous Materials Information System (WHMIS 2015), adoption to the Globally Harmonized System (GHS).

Hazardous Products Act (R.S.C., 1985, c.H-3), last amended Feb 11, 2015. Hazardous Products Regulation (SOR / 2015-17), last amended Feb 11, 2015.

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Regulations of Mexico:

Official Mexican Standard NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals [Globally Harmonized

System (GHS)] (DOF, 29-VI-2011).

Official Mexican Standard NOM-018-STPS-2000, system for the identification and communication of hazards and risks from hazardous chemicals in the workplace (DOF. 27-X-2000).

15.2. Chemical safety assessment

Chemical safety assessment

performed

No

Chemical Safety Assessment

No data recorded.

Exposure scenarios for mixture

Nο

Exposure Scenario Comments No recommendation given.

SECTION 16: Other information

Supplier's notes The information on this data sheet represents our current data and is reliable

provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process

is the responsibility of the user.

H315 Causes skin irritation.

List of relevant H-phrases (Section

2 and 3).

H319 Causes serious eye irritation.

Training advice
Recommended restrictions on use

User notes

Not relevant. Not relevant.

In the case of mixing the product with other products or in the case of

processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.

Version 1

Responsible for safety data sheet

Caleffi North America, Inc.