

Material Safety Data Sheet

RESINTECH, Inc.

Product Name: SBMP1-OH, SBMP1-OH-ULTRA, SBMP1-OH-LTOC, SBMP1-OH-SC, SBMP1-OH-NG, SBMP1-OH-UPS

Strong Base Anion Exchange Resin Hydroxide Form

1. Company Information:

Company Address:

ResinTech, Inc.
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West Berlin, NJ 08091 USA

Information Numbers:

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2. Composition/Ingredients:

Trimethylamine functionalized chlormethylated copolymer of styrene and divinylbenzene in the hydroxide form CAS# 69011-18-3 (35 – 65%)

Water CAS# 7732-18-5 (35 – 65%)

This document is prepared pursuant to the OSHA Hazard Communication Standard (29CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. Physical/Chemical Data:

Boiling Point: Not Applicable
Vapor Pressure (MM HG): Not Applicable
Evaporation Rate (water = 1): 1
Appearance & Odor: Light cream to light yellow.
May have amine odor.
Specific Gravity: 1.2 (water = 1)
Melting Point (deg. F) Not applicable
Solubility in Water: Insoluble
Thermal: May yield oxides of carbon and nitrogen
Vapor Density: Not Applicable

| Product Hazard Rating | Scale |
|-----------------------|----------------|
| Toxicity = 0 | 0 = Negligible |
| Fire = 0 | 1 = Slight |
| Reactivity = 0 | 2 = Moderate |
| Special – N/A | 3 = High |
| | 4 = Extreme |

4. Fire & Explosion Hazard Data

Flammable Limits: 800 ° Deg. F
Unusual Fire & Explosion Hazards: Product is not combustible until moisture is removed, then resin starts to burn in flame at 230 C. Autoignition occurs above 500C. Possible fire.
Combustion Products: Alkylbenzenes, vinylbenzenes, naphthalene, benzaldehydes, phenol, carbon dioxide, water, organic amines, chlorine, nitrogen oxides, ammonia, methyl chloride.

**Extinguishing Media:
Special Fire Fighting Procedures:**

Water, CO₂, Talc, Dry Chemical
MSHA/NIOSH approved self-contained
breathing gear.

5. Reactivity Data**Stability:**

Stable

Conditions to Avoid:

Temperatures above 400° F

Hazardous by Products:

See Section 3 above for possible combustion
products.

Materials to avoid contact with:

Strong oxidizing agents (i.e. nitric acid)

Hazardous Polymerization:

Material does not polymerize

Storage:

Store in a cool dry place

6. Health Hazards & Sara (Right to Know)**EMERGENCY FIRST AID PROCEDURES:**

Contact with eyes can and skins can cause
irritation.

Skin Absorption:

Skin absorption is unlikely due to physical
properties.

Ingestion:

Single dose oral LD50 has not been determined.
Single does oral toxicity is believed to be low.
No hazards anticipated from ingestion incidental
to industrial exposure.

Inhalation:

Vapors are unlikely due to physical properties.

Systemic & Other Effects:

No specific data available, however, repeated
exposures are not anticipated to cause any
significant adverse effects.

Carcinogenicity:

Not Applicable

Sara – title 3, sections 311 & 312:

All ingredients are non-hazardous

7. First Aid**Eyes:**

Irrigate immediately with water for at least 5
minutes. Mechanical irritation only.

Skin:

No adverse effects anticipated by this route of
exposure.

Ingestion:

No adverse effects anticipated by this route of
exposure incidental to proper industrial handling.

Inhalation:

No adverse effects anticipated by this route of
exposure.

8. Control Measures**Respiratory protection:**

Not required for normal uses if irritation occurs
from breathing-get fresh air!

Eye protection:

Splash goggles

Ventilation:

Normal

Protective Gloves:

Not required.

9. Safe handling procedures**In Case of Spills:**

Sweep up material and transfer to containers.
Use caution – the floor will be slippery!

Disposal Method:

Bury resin in licensed landfill or burn in approved
Incinerator according to local, state, and federal
regulations. For resin contaminated with
hazardous material, dispose of mixture as
hazardous material according to local, state and
federal regulations.

10. Additional Information:

Special precautions to be taken in handling and storage:

Practice reasonable care and caution. Metal equipment with feed, regenerant, resin form, and effluent of that process.

TSCA Considerations:

Every different salt or ionic form of an ion-exchange resin is a separate chemical. If you use an ion-exchange resin for ion-exchange purposes and then remove the by-product resin from its vessel or container prior to recovery of the original or another form of the resin or of another chemical, the by-product resin must be listed on the TSCA Inventory (unless an exemption is applicable). It is the responsibility of the customer to ensure that such isolated, recycled by-product resins are in compliance with TSCA. Failure to comply could result in substantial civil or criminal penalties being assessed by the Environmental Protection Agency.

MSDS Status:

Canadian regulatory information added.

11. Regulatory Information: (Not meant to be all-inclusive—selected regulations represented.)

Notice:

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

12. Canadian Regulations:

WHMIS Information:

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

Canadian TDG Information:

For guidance, the Transportation of Dangerous Goods Classification for this product is: Not Regulated.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, ResinTech, Inc. makes no warranty with respect hereto and disclaims all liability from reliance thereon.