



# Nitrate I

## SAFETY DATA SHEET

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### 1. General Information

**Use of the Substance/Preparation:**

Ion Exchange, Adsorbent and/or Catalyst

**Chemical Name:**

Polyvinyl benzyl triethyl ammonium chloride

**EC Number:**

N/A

**REACH Registration Number:**

This mixture is exempted from registration according to the provisions of Title II and VI and Article 2(9) of REACH

### 2. Hazardous Ingredients

**Emergency Overview**

**Physical State:**

White, cream solid (bead)

**Odor:**

Slight amine

**Contact with Eyes:**

May cause temporary eye irritation

**Contact with Skin:**

May be slightly irritating to the skin

**Low hazard for unusual industrial or commercial handling by trained personnel**

**OSHA Regulatory Status:**

This product is not hazardous according to OSHA 29CFR 1910.1200

**Potential Health Effects**

**Inhalation:**

Limited inhalation hazard at normal work temperatures

**Eye Contact:**

May cause temporary eye irritation

**Skin Contact:**

May be slightly irritating to skin

**Ingestion:**

Under normal conditions of intended use, this material does not pose a risk to health. However, ingestion may cause irritation and malaise

**Chronic health Effects:**

No other specific acute or chronic health impact noted

**Target Organ(s):**

Eye/Skin

**Potential Physical/Chemical Effects:**

This product is a combustible per NFPA

**Environmental Effects:**

The environmental hazard of this product is considered limited

### 3. Composition/Information on Ingredients

Ingredient	Concentration	CAS #
Polyvinyl benzyl triethyl ammonium chloride	25-57%	063453-90-7
Water	43-75%	7732-18-5

### 4. First Aid Measures

**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 discomfort continues.

**Skin Contact:**

Wash skin with soap and water.

**Ingestion:**

Immediately rinse mouth and drink plenty of water (200-300ml). Large quantities: Get medical attention if irritation persists.

### 5. Fire-fighting Measures

**Flammable Properties:**

NFPA Rating Fire = 1

**Extinguishing Media:**

Extinguish with foam, carbon dioxide, dry powder or water fog

**Unsuitable Extinguishing Media:**

N/A

**Special Fire-fighting Procedures:**

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

**Unusual Fire and Explosion Hazards:**

N/A

**Hazardous Combustion Products:**

Monomers, residual organics, amines, carbon and nitrogen oxides

**Protective Measures:**

Selection of respiratory protection for fire-fighting: follow the general fire precautions indicated in the workplace

## 6. Accidental Release Measures

**Personal Precautions:**

Keep people away, spillage causes slippery surface

**Environmental Precautions:**

Do not allow to enter public sewers and watercourses

**Methods for cleaning up:**

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

## 7. Handling and Storage

**Handling:**

Avoid contact with eyes and prolonged skin contact. See section 8 of the SDS for personal protective equipment

**Storage:**

Store at temperatures above 0° C (32° F), store at temperatures below 40° C (104° F), keep in original container, keep container tightly closed to prevent the loss of water, 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:****Respiratory Protection:**

If engineering controls do not maintain airborne 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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: High-efficiency particulate respirator

**Eye Protection:**

Risk of contact: wear approved safety goggles

**Hand Protection:**

Risk of contact: wear protective gloves. Suitable gloves can be recommended by the glove supplier

**Skin Protection:**

Risk of contact: use skin protection. It is 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

**Environmental Exposure Controls:**

Environmental manager must be informed of all major spillages

## 9. Physical and Chemical Properties

<b>Appearance:</b>	White, cream beads
<b>Odor:</b>	Slight amine
<b>Odor Threshold:</b>	N/A
<b>Physical State:</b>	Solid (bead)
<b>pH:</b>	Neutral aqueous slurry
<b>Melting Point:</b>	N/A
<b>Freezing Point:</b>	N/A
<b>Boiling Point:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A
<b>Flammability Limit:</b>	Upper/Flammability Limit
<b>Lower (%):</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A
<b>Specific Gravity:</b>	1.15 - 1.30
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	N/A
<b>Partition Coefficient (n-Octanol/water):</b>	N/A
<b>Auto-ignition Temperature:</b>	N/A
<b>Decomposition Temperature:</b>	N/A

## 10. Stability and Reactivity

**Conditions to Avoid:**

Considered stable under normal conditions; avoid heat

**Materials to Avoid:**

Incompatible with strong oxidizing substances. Contact with strong oxidizers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures.

**Hazardous Decomposition Products:**

At elevated temperatures; monomers, residual organics, amines, carbon and nitrogen oxides

**Possibility of Hazardous Reactions:**

N/A

## 11. Toxicological Information

**Acute Toxicity:**

No evidence of acute toxicity

**Carcinogenicity:**

No evidence of carcinogenic effects

**Teratogenicity:**

No evidence of reproductive effects

**Mutagenicity:**

No evidence of mutagenic effects

## 12. Ecological Information

**Ecotoxicity:**

No data available

**Mobility:**

The product is insoluble in water and will sediment in water systems

**Persistence and degradability:**

The product is not readily biodegradable.

**Bioaccumulative Potential:**

Potential to bioaccumulate is low

**Other Adverse Effects:**

No data available

## 13. Disposal Considerations

**General Information:**

Dispose of waste and residues in accordance with local authority requirements

**Disposal Methods:**

No specific disposal method required

**Container:**

Since empty containers contain product residue, follow label warnings even after container is emptied

## 14. Transport Information

**DOT:** Not regulated

**TDG:** Not regulated

**IATA:** Not regulated

**IMDG:** Not regulated

## 15. Regulatory Information

**Canadian Controlled Products Regulations:**

This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33 and the SDS contains all required information.

**WHMIS Classification:**

This is not a WHMIS controlled product

**Mexican dangerous Statement:**

This product is not dangerous according to Mexican regulations

**Applicable International Laws and Regulations:**

This mixture is exempted from registration according to the provisions of Title II and VI and Article 2(9) of REACH

**Inventory Status:**

This product or all components are listed or exempt from listing on the following inventory: TSCA, DSL

**U.S. Regulations:**

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated

**SARA Title III:**

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated

Section 311/312 (40 CFR 370): Acute(Immediate) Chronic(Delayed) Fire reactive pressure generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Not regulated

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

Not regulated

**Drug Enforcement Act:**

Not regulated

**TSCA:**

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt. E): Not regulated

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated

**State Regulations:**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated

Massachusetts Right-To-Know List: Not regulated

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act 451 of 1994)): Not regulated

Minnesota Hazardous Substances List: Not regulated

New Jersey Right-To-Know List: Not regulated

Pennsylvania Right-To-Know List: Not regulated

Rhode Island Right-To-Know List: Not regulated

## 16. Other Information

### Hazard Ratings

#### **NFPA**

Health Hazard	1
Fire Hazard	1
Instability	0
Special Hazard	0

0-minimal; 1-slight; 2-moderate; 3-serious; 4-severe

#### **HMIS**

Health Hazard	1
Flammability	1
Physical Hazard	0
Personal Protection	--

0-minimal; 1-slight; 2-moderate; 3-serious; 4-severe

The information provided in this SDS is based on current knowledge about the product as well as current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses. It does not signify any warranty with regard to the properties of the product and only applies when the product is used for the purposes indicated. This product is not sold as suitable for any other purposes and such other usage or misuse of the product may cause risks not mentioned in this SDS.