



Tannin 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 trimethyl 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. Hazards Identification

Emergency Overview

Physical State:
White, yellow, pale amber, cream spherical beads solid (bead)

Odor:
N/A

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 trimethyl ammonium chloride	20-60%	69011-19-4
Water	40-80%	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 irritation 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

Appearance:	White, yellow, pale amber, cream beads
Odor:	Slight amine
Odor Threshold:	N/A
Physical State:	Solid (bead)
pH:	Neutral aqueous slurry
Melting Point:	N/A
Freezing Point:	N/A
Boiling Point:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Flammability Limit:	Upper/Flammability Limit
Lower (%):	N/A
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Specific Gravity:	1.06 - 1.12
Solubility in Water:	Insoluble
Solubility (other):	N/A
Partition Coefficient (n-Octanol/water):	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	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

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.