



Tannin III

SAFETY DATA SHEET

Crystal Quest® Manufacturing
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1. Ingredients

Trimethylamine functionalized chlormethylated copolymer of styrene and divinylbenzene in the chloride form	CAS# 60177-39-1 (15-40%)
Water	CAS# 7732-18-5 (60-85%)

2. Physical/Chemical Data

Boiling Point: N/A
Vapor Pressure (MM HG): N/A
Evaporation Rate (water=1): 1
Appearance and Odor: White to light yellow may have amine odor
Specific Gravity: 1.2 (water=1)
Melting Point: N/A
Solubility in Water: Insoluble
Thermal: May yield oxides of carbon and nitrogen
Vapor Density: N/A

Toxicity	0
Fire	0
Reactivity	0
Special	N/A

0=negligible; 1=slight; 2=moderate; 3=high; 4=extreme

3. Fire and Explosion Hazard Data

Flammable Limits:
800° F (426.7° C)

Unusual Fire & Explosion Hazards:

Product is not combustible until moisture is removed, then resin starts to burn in flame at 230° C (446° F). Autoignition occurs above 500° C (932° F). Possible fire

Combustion Products:

Alkylbenzenes, vinylbenzenes, naphthalene, benzaldehydes, phenol, carbon dioxide, water, organic amines, chlorine, nitrogen oxides, ammonia, methyl chloride

Extinguishing Media:

Water², CO₂, Talc, Dry Chemical

Special Fire-fighting Procedures:

MSHA/NIOSH approved self-contained breathing gear

4. Reactivity Data

Stability:

Stable

Conditions to Avoid:

Temperatures above 400° F (204.4° C)

Hazardous By-products:

See Section 3 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

5. Health hazards and SARA (Right-To-Know)

Emergency First Aid procedures:

Contact with eyes and skin can cause irritation

Skin Absorption:

Skin absorption is unlikely due to physical properties

Ingestion:

Single dose oral LD50 has not been determined. Single dose 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 and Other Effects:

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

Carcinogenicity:

N/A

SARA – Title3, Sections 311 & 312:

All ingredients are non-hazardous

6. 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

7. 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

8. 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.

9. Additional Information

Special Precautions for Handling & Storage:

Practice reasonable care and caution.

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.

10. Regulatory Information

Canadian Regulations

WHMIS Information:

This product is not a controlled product under WHMIS

Canadian TDG Information:

Not regulated

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Not regulated

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.

