



Rantec Corporation

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME:

DATE PREPARED: 20 SEPT 2011

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PREPARED BY:

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SECTION I - Identification

Product name: SpecTac

Chemical name: Proprietary Polymer Blend

Chemical family: Polysaccharide/Water Soluble Polymer

Formula: Proprietary

DOT hazard class: None **DOT proper shipping name:** Non-Regulated

SECTION II - Hazardous Ingredients

Ingredient	CAS Number	% Weight	Exposure Limits
None			

SECTION III - Physical Data

Boiling Point: Solid, n/a

Vapor Pressure: Solid, n/a

Vapor Density: Solid, n/a

Evaporation Rate: Solid, n/a

Solubility in Water: Complete

Appearance and Odor: Yellow colored powder

Specific Gravity: Density ~ 40 lb/cf

Melting Point: Decomposes

pH 4-9

SECTION IV - Fire and Explosion Hazard Data

Flash Point: N/A

Flammable or Explosion Limits: UEL: Not Determined LEL: Approx. 0.04 oz/cf. Similar to Flour and grain Dusts.

Extinguishing Media: CO₂, dry chemical, foam, water fog.

Hazardous Decomposition Products: Thermal decomposition expected to product carbon monoxide, carbon dioxide and various nitrous oxides.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus to avoid smoke.

Unusual Fire and Explosion Powder has the potential to form explosive mixture with air.

Hazards: Avoid creating dust. Keep away from heat, open flame and sparks. Use spark-proof motors, ventilate to control dust and use other preventive measures as with all dusty materials. Powder becomes very slippery when wet. Application of water to material may produce slipping hazards.

SECTION V: Reactivity Data

Stability: Stable
Conditions to Avoid: Ignition sources, air suspended dust, water contact.
Incompatibility: Strong oxidizers
Hazardous Decomposition Products: Thermal decomposition may produce: nitrogen oxides, carbon oxides.
Hazardous Polymerization: Will not occur

SECTION VI: Health Hazard Data

OSHA Hazardous Material:

OSHA Hazard Categories:

1. Carcinogen –	NO
2. Corrosive –	NO
3. Highly Toxic –	NO
4. Irritant –	Yes
5. Sensitizer –	Yes
6. Toxic –	NO
7. Target Organ Effect Lung and Cutaneous --	Yes

Emergency Overview:

Concentrations of dust suspended in the air present a fire and explosion hazard.

Inhalation of dust may cause respiratory irritation and possible lung injury with symptoms of shortness of breath and reduced lung function.

Slippery when wet.

Acute Health Effects:

Eye Contact: Contact may cause irritation based on studies with laboratory animals.

Skin Contact: Contact may cause dryness.

Inhalation: Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing wheezing and shortness of breath. May cause life-threatening allergic reaction in susceptible individuals.

Ingestion: DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions. Get medical attention immediately.

Chronic (long-term exposure) Health Effects:

- **Inhalation:** Overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath, difficulty breathing and reduced pulmonary function. Repeated exposures may cause allergic sensitization.
- **Carcinogenicity:** None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.

- **Medical Conditions Aggravated by Exposure:** Persons with pre-existing skin and respiratory disorders may be at an increased risk from exposure.

Physical Hazards:

- **Dust:** It is well documented that a dust cloud will fuel an explosion in a confined area with sufficient oxygen and an ignition source. Surface (passive) and airborne (active) dust (fuel) is a potential hazard and the appropriate protective measures should be taken when handling SpecTac outside of the bag in confined work spaces, dust collectors, dryers, mills, sifters, blender, pneumatic conveyance systems, storage tanks, etc. Utilize good housekeeping to remove surface dust from floors, walls, beams, around equipment, etc.
- **Slick Surfaces:** It is possible that an employee will be exposed to SpecTac powder or dust in combination with water on work platform, floor or stair, which will result in a slippery surface.

SECTION VII - Special Precautions and Spill Procedures

Handling and Storage: Store in a dry, cool place. SpecTac is stable in the dry form. Protect from moisture, excessive heat and damage by rodents. Keep containers closed to avoid moisture pickup. Properly cover and retest after extended storage to assure quality prior to use.

Material Spills: Please note that SpecTac becomes very slippery when wet. Sweep up dry and containerize. Reuse if suitable or dispose. Mop area with hot water to remove final traces. Test area and repeat if necessary.

Waste Disposal: Clean Drill is not hazardous waste. Dispose in an approved landfill in accordance with local regulations. Do not dump down sewers or drains as this may cause blockage.

SECTION VIII- Special Protection Information for Safe Handling

Respiratory Protection: Provide individuals with approved dust masks or respirators that are capable of removing aerosol dust.

Ventilation: Provide dust control measures to remove or recover airborne dust. Use spark-proof equipment.

Protective Gloves and Clothing: Rubber, plastic, leather, fabric.

Eye Protection: Safety glasses.

SECTION IX- Ecological Information

Fish: LC50Danio rerio/96hour >1000mg/L

Algae: IC50/Scenedesmus subspicatus/72hr>1000mg/L

Daphnia: EC50/Daphnia magna/48 hr >1000 mg/L

Bioaccumulation: Does not bioaccumulate

SECTION X- Regulatory Information

RCRA Status: Not a hazardous waste.

Hazardous Waste Number: Not applicable.

Reportable Quantity: Not applicable.

Threshold Planning Quantity: Not applicable.

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