

# MATERIAL SAFETY DATA SHEET

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**TRADE NAME:** TECH-FLO® BETA (0-6-0 + 6½% Zn, 6½% Mn)

**CHEMICAL FAMILY:** Inorganic salts formulated for use as a plant nutrient.

**CHEMICAL NAME & SYNONYMS:** Zinc phosphate & basic sulfate; manganese phosphate & oxides.

<u>SPECIAL REGULATORY HAZARDS</u>			
<u>INGREDIENT</u>	<u>CAS No.</u>	<u>EXPOSURE LIMIT</u>	<u>OSHA (1910.1200)</u>
Manganese compounds	1317-35-7	5 mg/m³ as Mn, dust (OSHA, ACGIH)	Target organ effects

**Transportation:** No special DOT requirements.

### TYPICAL PROPERTIES

<b>Odor:</b>	Indistinct	<b>Physical Form:</b>	Liquid Suspension
<b>Color:</b>	Dark brown	<b>Vapor Press.(22 C):</b>	19.8 mm Hg ( <i>Methylene Chloride</i> )
<b>Boiling Pt.:</b>	>100 C	<b>Lbs/Gal (68 F):</b>	11.8
<b>Sp. Gr. (18 C):</b>	1.4140	<b>Vapor Density (Air=1):</b>	N/A
<b>Solubility in Water:</b>	52%	<b>pH:</b>	Neutral

### HAZARD CLASSIFICATION

**FIRE-** [0] **TOXICITY-** [1] **ODOR-** [1] **REACTIVITY-** [0] **CORROSIVENESS-** [1]  
(*Hazard Rating Code: 0-None; 1-Slight; 2-Moderate; 3-High*)

### FIRE & EXPLOSION HAZARD DATA

**FLASH POINT (Method):** Not applicable.

**FLAMMABLE LIMITS (%-by-wt):** Product is not flammable.

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, water, dry chemicals.

**SPECIAL FIRE FIGHTING PROCEDURES:** None.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** None.

### HEALTH HAZARD DATA

**PRIMARY ROUTE OF ENTRY:** Ingestion.

**SPECIAL HAZARDS:** Contact with eyes or skin may cause irritation. Ingestion may cause nausea, vomiting, or diarrhea; significant doses may cause CNS disturbances including sleepiness, weakness in legs and spastic gait.

**TOXICOLOGY:** There are no toxicological data on this material.

**EMERGENCY & FIRST AID PROCEDURES:** For eye contact, flush with water for 15 minutes. Get medical attention. For skin contact, wash thoroughly with soap and water. If ingested, consult a physician.

### REACTIVITY DATA

**STABILITY:** Highly stable.

**CONDITIONS TO AVOID:** Not reactive

**INCOMPATIBILITY (Materials to Avoid):** None known. Compatible with most chemicals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will Not Occur.

#### **STORAGE, SPILLS, AND DISPOSAL INFORMATION**

**SPILL OR LEAK PROCEDURES:** Steps to be taken in case material is released or spilled:

Use scoop, shovel, or vacuum for removal to waste container. Transfer to secure containers for proper disposal. Use personal protective equipment as outlined below.

**WASTE DISPOSAL METHOD:**

May be disposed of as fertilizer waste or in an approved chemical waste landfill as state or federal regulations permit regarding inorganic waste. Incineration is not practical.

**CONTAINER DISPOSAL METHOD:**

Triple rinse and dispose of in an approved landfill or incinerate in accordance with all applicable government regulations.

**ENVIRONMENTAL:** Avoid run-off to water supplies, streams, etc., or storm-water discharge.

#### **HANDLING AND STORAGE PRECAUTIONS**

**SPECIAL PROTECTION INFORMATION: Respiratory Protection:** Not normally required.

**PROTECTIVE GLOVES:** Should be worn when handling.

**EYE PROTECTION:** Tight fitting goggles are recommended.

**OTHER PROTECTIVE EQUIPMENT:** Not normally required.

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING:** Avoid skin and eye contact. Observe good personal hygiene

**STORAGE PRECAUTIONS:** Protect from extreme temperatures, hot or cold. Keep from freezing. Do not store more than two pallets high.

**OTHER PRECAUTIONS:** Floor spills may be slippery. Observe caution during removal.

#### **SARA TITLE III (40CFR 372)**

##### **SECTION 313 TOXIC CHEMICALS NOTIFICATION**

<u>TOXIC CHEMICAL</u>	<u>CAS #</u>	<u>%-By-Weight</u>
None		

Carcinogenic per NTP\_\_\_ IARC\_\_\_ OSHA\_\_\_ NONE\_\_x\_\_

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