

**MATERIAL SAFETY DATA SHEET****NUTRIENT TECHNOLOGIES, INC.**

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**TRADE NAME: TECH-FLO® PHI** (2-4-0 + 5% Fe)**CHEMICAL FAMILY:** Inorganic salts formulated for use as a plant nutrient.**CHEMICAL NAME & SYNONYMS:** Ferrous phosphates and sulfates.

<u>INGREDIENT</u>	<u>SPECIAL REGULATORY HAZARDS</u>		
	<u>CAS No.</u>	<u>EXPOSURE LIMIT</u>	<u>OSHA (1910.1200)</u>
Iron salts	7720-78-7	1 mg/m <sup>3</sup>	Irritant

**Transportation:** No special DOT requirements.**TYPICAL PROPERTIES**

<b>Odor:</b>	Indistinct	<b>Physical Form:</b>	Liquid Suspension
<b>Color:</b>	Dk-brown-green	<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>	11.4
<b>Sp. Gr. (18 C):</b>	1.360	<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.**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, give milk or beaten eggwhites and 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 (40 CFR 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\_\_\_

*Nutrient Technologies makes no representation or warranty with respect to the information in this MSDS. This information is true and accurate to the best of our knowledge as of this date. This information is not intended to be all-inclusive. Actual conditions of use and handling may require information other than, or in addition to, that which is provided here.*