

# Material Safety Data Sheet

Date of Preparation: 10/89

TS-3

Revision: 01/14/2015

## Section 1 - Chemical Product and Company Identification

Product/Chemical Name: TS-3

Chemical Formula:

CAS Number:

Other Designations:

General Use:

Manufacturer: MIRANDY PRODUCTS, LLC., 1078 GRAND AVENUE, S. HEMPSTEAD, NY 11550

(516) 489-6800

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PPE†

†Sec. 8

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
PHOSPHORIC ACID*		14-16

\*This material is subject to SARA Section 313.

DOT Shipping Classification: Corrosive UN#1805

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
PHOSPHORIC ACID	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>		3mg/m <sup>3</sup>	

Toxicity Data:

## Section 3 - Physical and Chemical Properties

Physical State:

Appearance and Odor: Clear liquid, mild sweet odor

Odor Threshold:

Vapor Pressure: N/A

Vapor Density (Air=1): >1

Formula Weight:

Density:

Specific Gravity (H<sub>2</sub>O=1, at 4 °C): >1

pH:

Water Solubility: Complete

Other Solubilities:

Boiling Point: 212F

Freezing/Melting Point: N/A

Viscosity:

Refractive Index:

Surface Tension:

% Volatile:

Evaporation Rate: N/A

## Section 4 - Fire-Fighting Measures

Flash Point:

Flash Point Method: None

Autoignition Temperature:

LEL:

UEL:

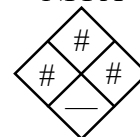
Flammability Classification:

Extinguishing Media: See Unusual Fire or Explosion Hazards section below.

Unusual Fire or Explosion Hazards: Although this product does not meet the parameters for flammability, it may react with metals to liberate hydrogen, a flammable gas. In this case, water spray may be effective in absorbing gas.

Hazardous Combustion Products:

NFPA



**Fire-Fighting Instructions:** None.

**Fire-Fighting Equipment:**

### Section 5 - Stability and Reactivity

**Stability:** Stable

**Polymerization:** Hazardous polymerization will not occur.

**Chemical Incompatibilities:** Oxidizing materials, aluminum.

**Conditions to Avoid:** Stable under normal use/conditions.

**Hazardous Decomposition Products:** Ammonia, nitrogen oxides under fire conditions.

### Section 6 - Health Hazard Information

#### Potential Health Effects

**Primary Entry Routes:** Ingestion

**Target Organs:**

**Acute Effects**

**Inhalation:**

**Eye:**

**Skin:**

**Ingestion:**

**Carcinogenicity:** No.

**Medical Conditions Aggravated by Long-Term Exposure:** None known.

**Chronic Effects:** May cause irritation to eyes. Should not irritate skin unless abrasion already exists. Single dose oral toxicity is low. Physician should be immediately consulted when any chemical is ingested.

#### Emergency and First Aid Procedures

**Inhalation:**

**Eye Contact:** Irrigate with water for 15 minutes and consult physician.

**Skin Contact:** Flush with water.

**Ingestion:** Induce vomiting if large amount is ingested. Consult physician.

**Note to Physicians:**

**Special Precautions/Procedures:**

### Section 7 - Spill, Leak, and Disposal Procedures

**Spill /Leak Procedures:** Avoid public water supply. Soak up with inert material and scoop into drums.

**Small Spills:**

**Large Spills:**

**Containment:**

**Cleanup:**

**Regulatory Requirements:**

**Disposal:** According to federal, state and local authorities.

**Disposal Regulatory Requirements:**

**Container Cleaning and Disposal:**

**Ecological Information:**

**Precautions for Storing and Handling:** Keep from freezing.

**Other Precautions:** Do not contaminate with unknown chemicals.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**

**Ventilation:**

**Administrative Controls:**

**Respiratory Protection:** None should be necessary.

**Protective Clothing/Equipment:** Wear impermeable gloves. Wear goggles if splashing might occur.

**Safety Stations:**

**Contaminated Equipment:**

**Comments:** Wash thoroughly after handling.