

# MATERIAL SAFETY DATA SHEET

**Product Name:** Rust Away

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## General Information

**Trade Name and Synonyms:** Phosphoric acid; Orthophosphoric acid

**Formula:** Mixture

**DOT Hazard Classification:** Corrosive Material, UN 1805

**Proper DOT Shipping Name:** Phosphoric acid

## Ingredients

### **Principal Hazardous Components**

Phosphoric Acid  
Balance

### **Percent**

40%-60%  
Non-Hazardous

### **Threshold Limit Value**

1 mg/m<sup>3</sup>

## Physical Data

**Boiling Point (°F):** 130—15 8C

**Vapor Pressure:** (mmHg): .03 MM HGQ20C

**Vapor Density (Air=1):** Non-Volatile

**Solubility in Water:** Complete

**Appearance and Odor:** Clear, Colorless Liquid

**Specific Gravity (H<sub>2</sub>O=1):** 1.5—1.7

**Percent Volatile by Volume (%):** Non volatile

**Evaporation Rate (Butyl Acetate=1)** Non Volatile

**PH:** About 1.5

## Fire and Explosion Hazard Data

**Flash Point:** Non flammable

### **Auto Ignition Temperature**

Non-Combustible

**Flammable Limit:** N/A

**LEL** N/A

**UEL** N/A

**Extinguishing Media:** N/A

**Special Fire Fighting Procedure:** Use full protective clothing and self-contained breathing apparatus. Thermal decomposition emits toxic fumes of oxides of phosphorus.

**Unusual Fire and Explosion Hazards:** None

**Reactivity Data**

**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatibility; Materials to Avoid:** Contact with reactive metals (EG. Mild Steel and Aluminum)  
May produce flammable/explosive hydrogen. Air Mixtures.

**Hazardous Polymerization:** Will not occur    **Conditions to Avoid:**  
Contact with alkaline materials, reactive metals

**Hazardous Decomposition Products:**

At flame temperatures, will emit toxic phosphorus oxide fumes.

**Health Hazard Data**

Threshold Limit Value	OSHA Threshold Limit Value	ACGIH Threshold Limit Value
1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

**Carcinogen — NTP Program:** Not listed

**Carcinogen — IARC Program:** Not listed

**Symptoms of Exposure:** Contact with skin and eyes cause irritation and can produce **burns**.  
Ingestion can cause irritation **and** burning of the mucous membranes of the gastro-intestinal tract.  
Inhalation of mist may **cause** irritation of the respiratory tract.

**Primary Routes of Exposure:**

**Emergency First Aid:**

**Eyes:** Severe Irritant; chemical burn likely. Source: RTECS Date: 1980

**FIRST AID:** Flush with copious water for at least 15 minutes. If irritation persists, obtain medical attention.

**Skin:** Contact: Severe Irritant, corrosive to tissue. SOURCE: FMC

Absorption: Slightly Hazardous LD50(Rabbit) = 2740 MG/KG. Source: RTECS Date: 1980

**FIRST AID:** Wash off with water. If irritation persists, obtain medical attention.

**Inhalation:** Severe Irritant—TCLO (Human): 100 milligrams per cubic meter. SOURCE: RTECS Date: 1980

**FIRST AID:** Remove from exposure. If Breathing is difficult or discomfort persists, obtain medical attention.

Ingestion: Slightly hazardous. LD50(Rat) = 1530 MG/KG SOURCE: RTECS Date: 1980

**FIRST AID:** Rinse mouth with water; give copious water to cause dilution in stomach.  
**DO NOT CAUSE VOMITING.**

## **Environmental Protection Procedures**

**Spill Response:** Dike and salvage or neutralize. Soda ash and lime are neutralizing agents.

**Waste Disposal Method:** If material can not be salvaged, a method is neutralization followed by discharge into a treatment system in accordance with all local, state, and federal regulations.

## **Special Protection Information**

**Eye Protection:** Wear chemical goggles, if splashing, spray or mist conditions or possible.

**Skin Protection:** Rubber, neoprene or other resistant elastomer.

**Respiratory Protection:** For severe mist use NIOSH/MSHS ACID GAS RESPIRATOR with full face piece or in severe exposure use self-contained breathing apparatus.

**Ventilation Procedures:** Ventilation only required in case of mist conditions.

**Other Protection:** Where contact is likely, rubber apron and boots.

## **Special Precautions**

**Hygienic Practices in Handling and Storage:** Use goggles and/or face shields, rubber aprons, gloves and boots where splashing or liquid contact is **expected**. For exposure to airborne mist use NIOSH/MSHA acid gas respirator with full facepiece.

Do not get in eyes, on skin, on clothing. Avoid breathing mist. Keep container closed, Wash thoroughly after handling.

### **Precautions for Repair and Maintenance of Equipment:**

Store in suitable containers (E.G. Glass, Fiberglass reinforced plastic, polyethylene lined drums, type 316 stainless steel).

### **Other Precautions:**

None

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