

MATERIAL SAFETY DATA SHEET

Product Name: Aluminum Brightener

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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	Percent	Threshold Limit Value
Phosphoric Acid	40%-60%	1 mg/m ³
Balance	Non-Hazardous	

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 (H₂O=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 ³	1 mg/m ³	1 mg/m ³

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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