

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M12010

Trade Name: 0-52-0
Registration No: None

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 70013
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: 0-52-0 Merchant Grade Phosphoric Acid
Common Name: Phosphoric Acid, Ortho Phosphoric Acid,
Merchant Grade Phosphoric Acid
Chemical Type: Phosphoric Acid

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
Ortho Phosphoric Acid	7664-38-2	H ₃ PO ₄	72%	1 mg/m ³ (3 mg/m ³ STEL)	1 mg/m ³
Inert Ingredients			Non-Hazardous 28%		

SECTION 3

HAZARDS IDENTIFICATION

Ingestion: Ingestion may result in irritation and burning of mucous membranes and/or gastrointestinal tract.
Inhalation: Inhalation of acid mist may produce mild to severe irritation of respiratory tract. Some rail cars of Phosphoric acid may have an off gas of fluorine. Follow proper unloading procedures on this sheet under section 7 to eliminate possible exposure.
Eye Contact: Will produce severe irritation. Prolonged contact may result in burn to eye causing permanent damage.
Skin Absorption: May produce mild to severe irritations. Prolonged contact may result in chemical burns.
Skin Contact: May produce mild to severe irritations. Prolonged contact may result in chemical burns.
Effects of Overdose: Severe conjunctivitis which may result in permanent damage. Can result in nausea and vomiting with severe abdominal pain. Prolonged contact with acid mist can result in severe respiratory irritation.

SECTION 4

FIRST AID MEASURES

Ingestion: Dilute with 2-3 glasses of milk or water. Do not induce vomiting. Consult a physician immediately.
Inhalation: Remove person to fresh air. If person is not breathing, perform artificial respiration if properly trained. Seek medical attention immediately.
Eyes: Promptly flush eyes with clean, cool water for at least 15 minutes. Contact a physician immediately.
Skin: Promptly remove contaminated clothing and rinse area with clear water for 15 minutes.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Non-flammable. Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: When phosphoric acid mists from hot fires may be encountered, self-contained breathing apparatus (SCBA) should be worn.
Unusual Fire and Explosion Hazards: Not listed

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Low toxicity to aquatic life. Do not contaminate any watercourse or other body of water by direct application, disposal, or cleaning of equipment.
Steps to be taken in case material is released or spilled:
Dike around spill for containment and recover for re-processing. Small spills can be safely neutralized with limestone or soda ash. Caustic soda should be avoided because of excessive reactivity.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing:
When unloading a rail car always open vent valve on top of rail car before opening dome and let sit an adequate amount of time to mitigate possible exposure to any off gas of chlorine. Always wear proper protective equipment. Avoid storage and/or transfer in tanks, lines and other equipment constructed or materials not specifically designed and approved for phosphoric acid service. Avoid freezing weather below 1°F. Have adequate first aid water available.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: General area ventilation.
Respiratory Protection: Approved respirators suitable for protection against acid mists and vapors. Not required for normal work procedures, but if misting occurs and always during unloading, use a high efficiency particulate respirator or self-contained breathing apparatus, with a full face shield when exposed above the TLV. Check with respirator manufacturer to determine the appropriate type of equipment for a given application.
Protective Clothing: Rubber clothing, chemical gloves, footwear and chemical hat or hood suitable for protection against acids.
Eye Protection: Tight sealing splash proof goggles.
Other: Eyewash and safety shower in work areas.

