



MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Chemical Name: Phosphoric Acid

Product Name IG-62 CAS Number 7664-38-2

Manufacturer's Name: Encee Chemical Sales

Address: P.O. Box 39

New Bern, NC 28560

Emergency Telephone Numbers: Manufacturer (252) 633-5868

CHEMTREC: (800) 424-9300 (24 hr)

SECTION II - HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

Material or Component Percentage Hazard Data

Phosphoric Acid 62% Oral-Rats LD₅₀ 1530 mg/kg

SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°F) 260 Specific Gravity (H₂O)=1 1.51

Melting Point N/A Solubility in Water Complete

Evaporation Rate (Butyl Acetate=1) N/A Percent Volatiles by Volume N/A

Vapor Pressure (75°F) < 10 mm Hg Appearance and Odor Green Liquid

Acrid Odor Vapor Density (Air=1) N/A

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point Not Combustible

Autoignition Temperature N/A

Flammable Air Limits, % by Volume N/A

Extinguishing Media N/A

Special Fire Fighting Procedures Use Self Contained Breathing Apparatus

Use Full Acid Resistant Clothing

Unusual Fire and Explosion Hazards Toxic and Irritating Phosphorous Oxides May Form Contact with Metals May Cause Formation of Flammable and Explosive Hydrogen Gas

SECTION V - REACTIVITY DATA

Stability Stable

Conditions to Avoid High Temperature -- May Cause Release of Highly Irritating

Phosphorous Oxides

Incompatibility Strong Bases

Hazardous Decomposition Products Phosphoric Acid Mist or Fumes, and Phosphorous

Oxides



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SECTION IV - HEALTH HAZARD INFORMATION

Toxicity/Health Hazard Data Oral - See Section II

Skin - Unknown Eye - Unknown

Air - TLV (ACGIH) 1 /mg/m³ for eight hour weighted average;

PEL (OSHA) 1/mg/m³

Routes of Exposure Ingestion - nausea, vomiting, stomach pain, diarrhea and shock, can be fatal

Skin Contact - irritant

Eye - Severe irritation, permanent damage or blindness

Inhalation - Irritation of nose, throat, and respiratory tract

Effects of Acute Overexposure Large amounts of oral dosage can be serious or fatal see ingestion under routes of exposure.

Effects of Chronic Overexposure See effects of acute exposure.

Emergency and First Aid Procedures Ingestion - If patient is conscious give large

amounts of water and induce vomiting. Seek medical attention

Skin Contact - Flush with water. Remove Contaminated Clothing.

Inhalation - Remove to Fresh Air. If discomfort continues seek medical attention.

Eye Contact - Wash with water for at least 15 minutes, including under the eyelid. Seek medical attention.

Notes to Physician Advise of Phosphoric Acid Exposure

SECTION VII - PRECAUTIONS FOR SAFE HANDLING/SPILL-LEAK PROCEDURES

Procedure for Leak or Spill Do not allow anyone to come in contact with

spilled material. Contain by diking. Prevent large quantities form entering waterways or

from contact with vegetation.

Neutralizing Chemicals Soda Ash or Lime

Precautions for Storage and Handling

Waste Disposal Method If uncontaminated, recover and reuse.

Consult Local, State, Federal Regulations.

Store in a well ventilated location away from

fire hazards.

Use a container suitable for phosphoric acid.

Do not use metals which react with acids including 304 stainless steels as the acid will

cause the formation of hydrogen gas.

Other Precautions Use suitable containers.

Do not take internally. Avoid eye and skin

contact. Avoid inhaling mist.



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SECTION VIII - PROTECTION/CONTROL MEASURES

Ventilation Maintain adequate ventilation. See TLV

Section IV.

Eyes Wear splash goggles with a face shield. Skin Wear impervious acid resistant clothing.

Respiratory Equipment NIOSH/OSHA approved dust or mist

respirator when the phosphoric acid mist exposure will exceed the OSHA

standard of 1 /mg/m³

Other Equipment A safety shower and eye wash station

shall be available where phosphoric

acid is used.

SECTION IX - SUPPLIER NOTIFICATION

Shipping Name Phosphoric Acid

Hazard Label Corrosive

Freight Classification Chemicals, Liquid

Transportation Guidelines Use approved shipping containers.

SECTION X - REFERENCES

Date Prepared June, 1991