

**MATERIAL SAFETY DATA SHEET****SECTION I - PRODUCT IDENTIFICATION**

Chemical Name: Phosphoric Acid
Product Name IG-75
CAS Number 7664-38-2
Manufacturer's Name: Encee Chemical Sales
Address: P.O. Box 39
New Bern, NC 28560
Emergency Telephone Numbers: Manufacturer (919) 633-5868
CHEMTREC: (800) 424-9300 (24 hr)

SECTION II - HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

<u>Material or Component</u>	<u>Percentage</u>	<u>Hazard Data</u>
Phosphoric Acid	75%	Oral-Rats LD ₅₀ 1530 mg/kg

SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°F) 260 Specific Gravity (H₂O)=1 1.67
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	Phosphoric Acid Mist or Fumes, and Phosphorous Oxides
Decomposition Products	



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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/m ³ for eight hour weighted average; PEL (OSHA) 1/mg /m ³
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 from entering waterways or from contact with vegetation.
Neutralizing Chemicals	Soda Ash or Lime
Waste Disposal Method	If uncontaminated, recover and reuse. Consult Local, State, Federal Regulations.
Precautions for Storage and Handling	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/m ³
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
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