



INDUSTRIAL CHEMICALS

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MATERIAL SAFETY DATA SHEET

24 Hour Emergency Telephone

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LIQUA PHOS 6224

SPRAY IRON PHOSPHATE

I. TRADE OR PRODUCT NAME: LIQUA PHOS 6224

II. INGREDIENTS % RECOMMENDED EXPOSURE LIMITS
AND TOXCITY INFORMATION

*Phosphoric Acid < 5 TWA(TLV) -1mg/m³; STEL 3 mg/m³ :ACGIH
CAS # 7664-38-2 TWA(PEL) -1mg/m³ Ceiling :OSHA

*Reportable under SARA Title III, Section 313.

ABBREVIATIONS

DNA.....Does Not Apply
NA.....Not Available
NOT EST.....Not Established
TLV.....Threshold Limit Value
TWA.....Total Weighted Average
STEL.....Short Term Exposure Limit
PEL.....Permissible Exposure Limit
OSHA.....Occupational Safety and Health Administration
ACGIH.....American Conference of Governmental Industrial Hygienists
LD 50.....Lethal Dose that Cause Half of the Animals in the Study to Die
LD 50.....Lethal Dose of Gases and Vapors in the Air that Causes Half of
the Animals in the Study to Die

III. PHYSICAL DATA (INFORMATION AT 20 C WHERE APPLICABLE):

BOILING POINT:	> 200 F	SPECIFIC GRAVITY (Water = 1) :	1.12-
1.14	pH: (4%): <3.01	VAPOR PRESSURE (mm Hg):	Same as water
VAPOR DENSITY(Air=1):	> ND	SOLUBILITY IN WATER:	Complete
% VOLATILE BY VOL: NA		EVAPORATION RATE: (Butyl Acetate = 1);	Same as water

APPEARANCE AND ODOR: Clear Yellowish to Amber Liquid - Mild Odor

IV. HEALTH HAZARD INFORMATION:

GENERAL EFFECTS OF OVEREXPOSURE: May cause chemical burns.

EYE CONTACT: May cause chemical burns.

SKIN CONTACT: May cause chemical burns to sensitive skin.

IF SWALLOWED: May cause severe gastrointestinal damage.

INHALATION: Vapors may be irritating and cause coughing and discomfort in the nose, throat, and chest.

HEALTH NOTE: None.

V. EMERGENCY AND FIRST AID PROCEDURES:

FIRST AID: Remove yourself from the source of contamination. The chemicals must be rinsed off immediately from the affected areas. Ask for help if you need assistance.

EYES: Immediately flush eyes with cool potable water for at least 20 minutes. Look up Down and side to side, while flushing to insure thorough rinse. Contact a physician. Do Not rub eyes. Do Not keep eyes tightly closed. Do Not use hot water to rinse. Do Not Use any oil or ointments in the eye(s) without medical assistance.

SKIN: Quickly remove clothing and jewelry from the affected area, while flushing the affected area with cool potable water. Continue flushing with the fresh water until the feeling of slipperiness or soapiness disappears. Dry skin gently with a clean soft towel. Contact a physician. Do Not use hot water to rinse. Do Not rub or apply pressure to affected area. Do Not remove skin or break blisters. If clothing is stuck to the affected area after flushing with water, do not remove clothing.

INHALATION: Move to fresh air. Blow your nose gently to remove as much substance as possible. Contact a physician.

INGESTION: Call a physician. If swallowed do not induce vomiting. Rinse mouth several times with cool water and spit out. Drink 1 – 2 cups of cool water or milk. Do Not give anything by mouth to an unconscious or convulsing person. Follow the physician's directions, if they differ. Do Not take any oils. Do not try to neutralize the acid with a strong base. Do Not take sodium bicarbonate or any carbonated drinks.

NOTE TO PHYSICIAN: None.

VI. SPILL OR LEAK PROCEDURE:

STEPS TO TAKE IF MATERIAL IS SPILLED OR RELEASED: Personnel wearing appropriate equipment should confine spill to a small area and remove all incompatibilities. Spread clay or sand to absorb solution. Shovel completely into a clean dry and approved container. Neutralize area with Sodium Bicarbonate (Baking Soda). Flush with water, then mop up or wet vacuum. Dispose of waste as local codes permit.

WASTE DISPOSAL METHOD: Send to waste disposal site as local codes permit.

VII. FIRE AND EXPLOSION DATA:

FLASH POINT (Test Method): None

EXPLOSIVE LIMITS (% By Vol. In Air): LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: Usual extinguishing media.

SPECIAL FIRE FIGHTING PROCEDURES: Wear chemically resistant clothing and full protective equipment.

FIRE AND EXPLOSIVE HAZARDS: None

VIII. REACTIVITY DATA:

STABILITY: Stable **CONDITIONS TO AVOID:** Do not freeze. Contact with reactive metals may produce flammable hydrogen gas.

HAZARDOUS POLYMERIZATION: Will Not Occur

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Alkali (Such as Sodium hydroxide), and alkali metals. Strong oxidizing and reducing agents. Combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide on Combustion. Highly toxic fumes of phosphorus oxides. Hydrogen fluoride gas.

IX. DEPARTMENT OF TRANSPORTATION INFORMATION:

Proper Shipping Name: Compound cleaning liquids, n.o.s. (Containing Phosphoric Acid).
 Hazard Class: 8 Corrosive Material Identification Number: NA-1760

X. SPECIAL PROTECTION INFORMATION:

VENTILATION: Use adequate local exhaust ventilation, where mist, vapors etc., from this product may be generated, to maintain exposure below recommended values. (See Section II). Local explosion-proof Exhaust Ventilation may be necessary for some operations.

RESPIRATORY: If spray vapors, dust, etc. from this product are present, wear the correct NIOSH/OSHA approved respiratory equipment, depending on the degree of exposure. If area is confined or poorly ventilated, use an approved positive-pressure, self-contained breathing apparatus.

EYES: Do not wear contact lenses. Wear NIOSH/OSHA approved splash goggles and face shield are recommended.

GLOVES: Neoprene.

OTHER PROTECTIVE EQUIPMENT: To prevent contact with skin wear face shield, impervious clothing and safety boots depending on degree of exposure. Safety showers and eye wash stations.

XI. HANDLING AND PERSONAL HYGIENE:

PRECAUTIONS: DANGER: Liquid acid product that containing phosphoric acid. May cause severe chemical burns. Do not contact eyes, skin, or clothing. Do not take internally.

HANDLING: Do not use this product before thoroughly reading the Material Safety Data Sheet and consulting with your account manager. When handling, wear safety goggles, face shield, neoprene gloves, respirator, and chemical resistant clothing depending on the degree of exposure.

PERSONAL HYGIENE: Use fresh clothing daily. When clothing or shoes become contaminated, remove at once and launder before re-use. If laundering is not effective, discard the article of clothing. Bathe after working using plenty of soap and water.

FOR BEST RESULTS:

	OTHER PRECAUTIONS
(1)	Store in cool dry place.
(2)	Store in original container with lid tightly closed.
(3)	DO NOT CUT, MUTILATE, OR RE-USE CONTAINER.
(4)	Consult your account manager before using this product.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

XII. HMIS INFORMATION:

Health.....	2	
Flammability.....	0	
Reactivity.....	0	
Personal Protection.....	H	
4 – Severe Hazard		3 – Serious Hazard
2 – Moderate Hazard		1 – Slight Hazard
0 – Minimal Hazard		
H – Splash goggles, gloves, synthetic apron, vapor respirator		
J – Splash goggles, gloves, synthetic apron, vapor & dust respirator		

XIII. REFERENCES:

Lefevre, Marc. J. First Aid Manual for Chemical Accidents. NY: Van Nostrand Reinhold, 1989

Material Safety Data Sheets on "Phosphoric Acid, 75%," from FMC Corporation, Downers Grove, Illinois.

Material Safety Data Sheets on "Phosphoric Acid, 75%," from Stauffer Chemical Co., Westport, CT.

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