



MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: Unifount 324
Chemical names, common names: Complex water based solution
Manufacturer's Name: HURST CHEMICAL COMPANY
Address: 2500 San Fernando Road, Los Angeles, CA. 90065
DOT CLASSIFICATION: Fountain Solution, (not regulated)
For Product Information, call : (323) 223-4121
FOR EMERGENCY, CALL CHEMTREC, 24 HOUR: 800 424-9300

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Number	Exposure Limits in Air ACGIH (TWA)	OSHA (PEL)
Phosphoric Acid	7664-38-2	1mg/m3	1mg/m3
Magnesium Nitrate	13446-18-9	Not Established	

Section IIA - This product contains the following chemicals subject to reporting requirements of SARA 313 and 40 CFR 372.

Listed Ingredients	CAS Number	Weight % Range
Phosphoric Acid	7664-38-2	< 1%

III. PHYSICAL PROPERTIES

Vapor density (air = 1): <1	Specific Gravity: 1.22	Density lb/gal: 10.17
Solubility in water: Complete	VOC Composite Partial Pressure, mm Hg at 20°C: <1	
Evaporation rate (Bu Ac = 1): <1	Boiling Range °F: 210	PH =2.65
Appearance and odor: Blue green liquid		
Volatile Organic Content (VOC,EPA Method 24): 0gm/l or 0 lb/gal		

IV. FIRE AND EXPLOSION

HAZARD RANKING

HMIS	Health Hazard=1	0=Least	4=Extreme
HAZARD	Flammability=0	1=Slight	B = Gloves and goggles
CLASS	Reactivity= 0	2=Moderate	
	Other = B	3 = High	

Flash Point °F: None

Flammable limits in air, volume%: lower NE upper NE

Fire extinguishing materials:	No water spray	No carbon dioxide	No foam
	No dry chemical	Yes other	

Special firefighting procedures: This product contains magnesium nitrate which is an oxidizer. Avoid allowing product to evaporate to dryness.

Unusual fire and explosion hazard: The heat of reaction with reducing agents or combustibles may cause ignition, then use CO2, foam or dry chemical.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE -

Inhaled: May cause mild irritation to the mucous membranes; symptoms may include coughing and shortness of breath.

Contact with skin or eyes: Vapors, mists, and liquid are corrosive to the eyes and skin.

Absorbed through skin: May cause skin irritation, redness and pain.

Swallowed: Large doses of nitrates may cause dizziness, abdominal pain, vomiting and collapse.

HEALTH EFFECTS OR RISKS FROM EXPOSURE -

Acute: Irritation of eye and skin.

Chronic: Skin tissue destruction, respiratory illness.

FIRST AID: EMERGENCY PROCEDURES -

Eye Contact: Flush with water for 15 minutes, seek medical attention as a precautionary action

Skin Contact: Wash with soap and water, remove contaminated clothing

Inhaled: Remove victim to fresh air

Swallowed: Contact local poison control center or physician IMMEDIATELY!

COMMENTS: This product is not considered to be a carcinogen by the NTP, IARC, and OSHA.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders, eye problems or respiratory function may be more susceptible to the effects of this product.

RECOMMENDATIONS TO PHYSICIAN-Not applicable

VI. REACTIVITY DATA

Stability: Stable under ordinary use and storage.

Incompatibility (materials to avoid): alkalis, combustibles, Cyanides.

Hazardous Decomposition products (including combustion products):

Phosphorus oxides, nitric oxides.

Hazardous polymerization: Will not occur.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures: Wear personal protective equipment. Keep spills out drains, sewers or waterways. Use sand or inert materials to dam and contain spill.

Preparing wastes for disposal: Dispose of in accordance with Local, State, and Federal regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: If current ventilation practices are not adequate to maintain airborne concentration below established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations may be used.

Respiratory Protection: The use of respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters (NIOSH Approved).

Eye Protection: If splash potential exists wear chemical splash goggles or faceshield

Gloves: Wear protective gloves

Other clothing and equipment: Eye wash and quick drench shower facilities should be available in the work area.

Thoroughly clean shoes and wash contaminated clothing before reuse.

Work practices, hygienic practices: Practice personal cleanliness by prompt removal of solvent in contact with skin. Train all employees on special handling procedures prior to working with this product.

OTHER HANDLING AND STORAGE REQUIREMENTS:

Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous.

HURST CHEMICAL COMPANY furnishes Material Safety Data Sheets based upon information from raw material suppliers. This information is provided in compliance with Federal Regulation 29CFR 1910.

HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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