

# MAGNUM

## SECTION I

### HARVARD CHEMICAL RESEARCH

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Date: 10/17/04

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HEALTH	2	0=Least
FLAMMABILITY	0	1=Slight
REACTIVITY	1	2=Moderate
		3=High
		4=Extreme

## SECTION II HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA / PEL	ACGIH / TLV	OTHER / STEL	SK
Ammonium Bifluoride	1341-49-7	2.5 mg/m	2.5 mg/m <sup>3</sup>		*
PHOSPHORIC ACID	7664-38-2	400 ppm	400 ppm	500ppm	*
2-BUTOXYETHANOL	11-76-2	25 ppm	25 ppm		*

## SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >212 <sup>o</sup> F	Appearance and odor: Clear liquid with bland odor.
Vapor Pressure (mm Hg): ND	Specific Gravity (H2O=1): 1.04
Vapor Density (Air=1): >1	Melting Point: NA
Solubility in Water: COMPLETE	Evaporation Rate:(Butyl Acetate=1) <1

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):NONE	Flammable Limits:LEL: N/A UEL: N/A
Extinguishing Media: N/A.	
Special Fire Fighting Procedures: Do not enter confined fire space without proper protective equipment including a NIOSH approved self contained breathing apparatus.	
Explosion Hazards: NONE	

## SECTION V-REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Oxidizers or strong acids.
Hazardous Decomposition or Byproducts: Heat, carbon dioxide, and carbon monoxide.
Hazardous Polymerization: Will not occur.

## SECTION VI-HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN
Routes of Entry, Signs of Exposure, and Symptoms of Exposure: SKIN and EYES: Severe irritant to eyes. INHALATION: Irritation and difficulty in breathing INGESTION: Gastric pain and vomiting.
Medical Conditions Generally Aggravated by Exposure: Unknown
Carcinogenics: NONE
Emergency and First Aid Procedures: SKIN & EYE CONTACT: Rinse skin with clear water. For eye contact immediately flush with clear running water for 15 minutes. Get medical attention. INHALATION: Remove to fresh air. If breathing does not return to normal, get medical attention. INGESTION: Immediately drink large quantities of water. Get medical attention.May be toxic or fatal if swallowed

## SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: PH adjust and dispose in accordance with federal and state regulations.
Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.
Other Precautions: Keep this and all chemicals out of the reach of children.

## SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): For exposure above established limits (see section II) use NIOSH/MSMA approved dust/mist mask.
Ventilation: Mechanical: Recommended.
Protective Gloves: Rubber or neoprene.
Eye Protection: Safety glasses with side shields.
Other Protective Clothing or Equipment: Drenching safety shower and eye wash station.

## SECTION IX-ADDITIONAL INFORMATION