

Material Safety Data Sheet

Hazard Rating:	NFPA	CODE TRANSLATION
Health:	1	0 = Minimal Hazard
Flammability:	0	1 = Slight Hazard
Reactivity:	0	2 = Moderate Hazard
Special:		3 = Severe Hazard
		4 = Extreme Hazard

FORMULA 1016

SECTION I: IDENTIFICATION

Effective Date: 7/1/86
Name and Address:

Revised: 12/20/05
Phone: (610) 775-1505
Emergency Phone: CHEMTREC (800) 424-9300
Outside USA: CHEMTREC COLLECT (703) 527-3887

PROASYS
318 HENDEL STREET
SHILLINGTON, PA 19607

Chemical Name: NOT APPLICABLE
Synonyms: N.A.
D.O.T. Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS POTASSIUM HYDROXIDE)
D.O.T. Hazard Class: 8

Formula SEE SECTION II
Chemical Family: COOLING WATER TREATMENT
ID No.: UN-1719 Packing Group: PG-II

SECTION II: INGREDIENTS

A. Hazardous Ingredients	CAS NO.	%	TLV
CAUSTIC POTASH (AS K ₂ O)	1310-58-3	<1.0	2 mg/m ³ /15M
B. Other Ingredients		%*	TLV
HYDROXYETHYLIDINE DIPHOSPHONATE		M	NONE ESTAB.
CARBOXYLATED PHOSPHONATE		M	NONE ESTAB.
POLYMALEIC COPOLYMER		M	NONE ESTAB.
CARBOXYLATED ACRYLIC		M	NONE ESTAB.
MOLYBDATE SALT		M	5 mg/m ³ (Mo)
BLEND OF ORGANIC AZOLE SALTS		M	NONE ESTAB.

*Legend: L=<1%; M=1-10%; H=>10%

SECTION III: PHYSICAL PROPERTIES

Boiling Point: >212°F
Percent Volatile (volume): >75
Vapor Pressure (mm Hg): N.A.
Vapor Density (air=1): <1
Appearance and Odor: CLEAR YELLOW/GOLDEN LIQUID WITH CHARACTERISTIC ODOR

Specific Gravity: 1.092-1.100
pH (10% solution): 12.8 ± 0.3
Solubility in Water: COMPLETE
Evaporation Rate (water=1): 1.0

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): NONE
Flammable Limits in Air (lower): N.A. (upper): N.A.

Extinguishing Media: ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE

Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN CONFINED AREAS.

Unusual Fire or Explosion Hazards: NONE KNOWN

Material Safety Data Sheet

FORMULA 1016

SECTION V: HEALTH HAZARD DATA

- A. TLV and Source: NONE ESTABLISHED FOR THIS PRODUCT. REFER TO SECTION II.
- B. Effects of a Single Overexposure by:
1. Ingestion: MAY BE TOXIC. DUE TO HIGH pH, MAY CAUSE SEVERE IRRITATION TO INTERNAL TISSUES.
 2. Inhalation: NOT A LIKELY ROUTE OF EXPOSURE.
 3. Skin Contact: PROLONGED CONTACT MAY CAUSE IRRITATION.
 4. Eye Contact: CAUSES SEVERE IRRITATION OR BURNS.
- C. Effects of Repeated Overexposures: OTHER THAN SHORT TERM EFFECTS, NONE KNOWN.
- D. Emergency and First Aid Procedures for:
1. Ingestion: DRINK SEVERAL GLASSES OF WATER AND GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING.
 2. Inhalation: N.A.
 3. Skin Contact: WASH WITH SOAP AND WATER OR PLAIN WATER.
 4. Eye Contact: IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- E. Other Health Information: NONE KNOWN

SECTION VI: PERSONNEL PROTECTION DATA

Respiratory Protection: NOT NORMALLY REQUIRED
Ventilation: NORMAL VENTILATION SATISFACTORY

Protective Gloves: OPTIONAL
Eye Protection: GOGGLES OR FACE SHIELD

Other Protective Equipment: EYEWASH STATION IN AREA OF USE.

SECTION VII: REACTIVITY DATA

- A. Product Stability: STABLE
Conditions to Avoid: NONE KNOWN
- B. Incompatibility: CONCENTRATED ACIDS OR OXIDIZING AGENTS
- C. Hazardous Combustion or Decomposition Products: OXIDES OF CARBON, NITROGEN, PHOSPHOROUS AND OTHER POTENTIALLY TOXIC FUMES MAY BE RELEASED IF WATER IS EVAPORATED BY THE HEAT OF A FIRE.

Material Safety Data Sheet

FORMULA 1016

- D. Hazardous Polymerization: WILL NOT OCCUR
Conditions to Avoid: NONE KNOWN

SECTION VIII: ENVIRONMENTAL DATA

- A. Spill or Leak Procedures: SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER, PREFERABLY TO A SANITARY SEWER OR WASTE TREATMENT FACILITY. LARGER SPILLS MAY BE ABSORBED IN SAWDUST OR OTHER ABSORBENT AND SWEEPINGS DISPOSED OF IN AN APPROVED LANDFILL.
- B. Waste Disposal: SMALL QUANTITIES MAY BE DILUTED WITH WATER AND FLUSHED TO A SANITARY SEWER. LARGER QUANTITIES MAY BE BURIED IN AN APPROVED LANDFILL. HOWEVER, OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.
- C. Other Environmental Data: AQUATIC TOXICITY NOT ESTABLISHED FOR THE PRODUCT. PLEASE REFER TO SECTION II.

SECTION IX: SPECIAL PRECAUTIONS

- A. Handling and Storage: STORE IN A COOL DRY PLACE. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.
- B. Other Precautions: THIS PRODUCT HAS BEEN DESIGNED FOR USE IN SPECIFIC TYPES OF COOLING WATER CIRCUITS AND SHOULD BE USED ONLY IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE TECHNICAL REPRESENTATIVE SERVICING THE FACILITY. IT MAY NOT BE USED FOR THE TREATMENT OF POTABLE WATERS.

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished to comply with the "Occupational Safety and Health Act" (OSHA) hazard communication regulation [Rule 29 CFR 1910.1220 (g) (2)]. Use or dissemination of all or part of this information for any other purpose is not permitted.