

**MATERIAL  
SAFETY  
DATA  
SHEET**

NFPA Designation 704

DEGREE OF HAZARD  
4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT

FLAMMABILITY	0
HEALTH	2
REACTIVITY	0
SPECIAL HAZARD	

# FORMULA NO. 5462-NE

## SECTION I: IDENTIFICATION

Effective Date: 5/1/95

Revised: 1/1/02

Name and Address:

Phone: 815-872-7400

Emergency Phone: CHEM-TEL 1-800-255-3924

INTERNATIONAL RESOURCE MGT., INC.

P.O. BOX 571

PRINCETON, IL 61356

Chemical Name: NOT APPLICABLE

Formula: SEE SECTION II

Synonyms: N.A.

Chemical Family: ALKALINE CLEANER

Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

D.O.T. Hazard Class: 8, UN3266, PG II

1996 ERG 154

## SECTION II: INGREDIENTS

### A. Hazardous Ingredients

	%	TLV
POTASSIUM HYDROXIDE CAS NO. 1310-58-3	<5.0	2mg/m <sup>3</sup> Ceiling
TRISODIUM PHOSPHATE CAS NO. 7601-54-9	<5.0	
SODIUM METASILICATE CAS NO. 6834-92-0	<3.0	

### B. Other Ingredients

	%*	TLV
INORGANIC POLYPHOSPHATES & BUILDERS	M	NONE ESTAB.
ORGANIC SURFACTANTS AND CHELATING AGENTS	H	NONE ESTAB.

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

## SECTION III: PHYSICAL PROPERTIES

Boiling Point: >212°F

Specific Gravity: 1.068-1.078

Percent Volatile (volume): >50

pH (undiluted): 12.5-13.0

Vapor Pressure (mm Hg): N.A.

solubility in water: COMPLETE

Vapor Density (air=1): <1

Evaporation Rate (water=1): 1.0

Appearance and Odor: PALE YELLOW LIQUID WITH CHARACTERISTIC ODOR

## SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): NONE

Flammable Limits in Air (lower): N.A.

(upper): N.A.

Extinguishing Media: WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE.

Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR CONFINED AREAS.

Unusual Fire or Explosion Hazards: NONE

## SECTION V: HEALTH HAZARD DATA

A. TLV and Source: CALCULATED >10mg/m<sup>3</sup> BASED ON THE K<sub>2</sub>O CONTENT.

B. Effects of a Single Overexposure by

1. Ingestion: MAY BE TOXIC BY INGESTION. DO NOT TAKE INTERNALLY. CORROSIVE TO MOUTH AND OTHER INTERNAL TISSUES DUE TO HIGH CAUSTIC CONTENT.

2. Inhalation: NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF MIST WOULD BE HIGHLY IRRITATING TO THE BRONCHIAL TRACT.

3. Skin Contact: PROLONGED CONTACT CAUSES SEVERE IRRITATION, POSSIBLE BURNS.

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4. Eye Contact: CAUSES SEVERE IRRITATION OR BURNS. MAY CAUSE IRREVERSIBLE DAMAGE.
- C. Effects of Repeated Overexposures: OTHER THAN ACUTE 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: REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.
  3. Skin Contact: WASH WITH SOAP AND WATER OR PLAIN WATER.
  4. Eye Contact: IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION.

SECTION VI:=====PERSONNEL PROTECTION DATA=====

Respiratory Protection: NOT NORMALLY REQUIRED

Ventilation: NORMAL VENTILATION SATISFACTORY

Protective Gloves: RUBBER OR PLASTIC 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

B. Incompatibility: CONCENTRATED ACIDS OR OXIDIZING AGENTS

C. Hazardous Combustion or Decomposition Products: OXIDES OF CARBON, NITROGEN AND PHOSPHOROUS MAY BE RELEASED IF WATER IS EVAPORATED BY THE HEAT OF A FIRE.

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

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: NONE AVAILABLE

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 CLEANING APPLICATIONS AND SHOULD BE USED ONLY BY PERSONNEL WITH EXPERIENCE IN HANDLING CAUSTIC CLEANING SOLUTIONS.

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SECTION X:=====REGULATORY INFORMATION=====

The following regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):  
Unless listed below, this product does not contain greater than 0.1% of any listed hazardous substance(s) - 40 CFR 302.4.

<u>SUBSTANCE</u>	<u>AMOUNT (Lbs/Gal)</u>
POTASSIUM HYDROXIDE (RQ=1,000 Lbs.)	Maximum 0.241 Lbs.

SARA (Superfund Amendments and Reauthorization Act):  
Unless listed below, this product does not contain greater than the reportable amounts of toxic chemicals as defined under the various regulations under SARA.

<u>SUBSTANCE</u>	<u>AMOUNT (Lbs/Gal)</u>
Section 302: Extremely Hazardous Substances List - 40 CFR 300	
NONE	

<u>SUBSTANCE</u>	<u>AMOUNT (Lbs/Gal)</u>
Section 313: Toxic Chemicals List - 40 CFR 372.45	
NONE	

RCRA (Resource Conservation and Recovery Act):  
Unless shown below, all components of this product listed as a hazardous waste under 40 CFR 261 are listed elsewhere in this MSDS. However, prior to disposal of the neat product, applicable regulatory agencies should be consulted.

<u>SUBSTANCE</u>	<u>AMOUNT (Lbs/Gal)</u>
NONE	

\*NOTE: This material is classified as a D002 Corrosive waste if disposed of as received.

CWA (Clean Water Act):  
Unless shown below, all components in this product at greater than 0.1% which are listed under 40 CFR 401.15, are listed elsewhere in this MSDS.

<u>SUBSTANCE</u>	<u>AMOUNT (Lbs/Gal)</u>
NONE	

OSHA (Hazard Communication Standard):  
All components listed under this standard 29 CFR 1910.1200 are listed in Section II of this MSDS.

TSCA (Toxic Substances Control Act):  
All ingredients in this product are listed in the TSCA inventory.

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### STATE REGULATIONS

CALIFORNIA (Safe Drinking Water and Toxic Enforcement Act - Proposition 65):  
The following chemicals and associated hazard are listed:

SUBSTANCE  
NONE

HAZARD

OTHER STATES: Certain states maintain their own ingredients lists which differ slightly from the Federal standards. States listed below have regulations on ingredients contained in this product. However, unless shown below, other sections of this MSDS contain the required reporting information.

<u>STATE</u>	<u>ADDITIONAL INGREDIENTS</u>	<u>AMOUNT (Lbs/Gal)</u>
MA, NJ, PA	NONE	

Prepared By: Harry S. Weaver

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients 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 for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is prohibited by law.