

# MATERIAL SAFETY DATA SHEET

## FORMULA 5463

**SECTION 1:****IDENTIFICATION**

Company Name:	INTERNATIONAL RESOURCE MGT.
Address:	P.O. BOX 571 PRINCETON, IL 61356
Phone No.	(815) 872-7400
Fax No.	(815) 872-7404
Emergency Phone No.	CHEM-TEL 800-255-3924
Date Prepared:	3/1/94
Date Revised:	6/1/02

**SECTION 2:****INGREDIENTS**

Hazardous Ingredients

**MATERIAL**

TETRASODIUM EDTA  
POTASSIUM HYDROXIDE  
SODIUM METASILICATE

**CAS NO.**

64-02-8  
1310-58-3  
6834-92-0

**%**

<2.0  
<15.0  
<3.0

**TLV**

NONE ESTAB.  
2mg/m<sup>3</sup> Ceiling  
NONE ESTAB.

Non-Hazardous Ingredients

A BLEND OF SURFACTANTS, AND OTHER INORGANIC BUILDERS  
WATER

>10  
BAL.

NONE ESTAB.  
NONE ESTAB.

**SECTION 3:****HEALTH HAZARDS**

Ingestion:	MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY. DUE TO HIGH ALKALINITY, CAUSES SEVERE IRRITATION, POSSIBLE BURNS OF INTERNAL TISSUES.
Inhalation:	NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF MIST IRRITATING TO RESPIRATORY TRACT.
Skin Contact:	PROLONGED CONTACT CAUSES SEVERE IRRITATION.
Eye Contact:	CAUSES SEVERE IRRITATION, POSSIBLE BURNS AND EYE DAMAGE.
Other Information:	OTHER THAN ACUTE EFFECTS LISTED ABOVE, NO LONG TERM EFFECTS KNOWN.

**SECTION 4:****FIRST AID**

Ingestion:	DRINK SEVERAL GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.
Inhalation:	REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.
Skin Contact:	WASH WITH PLAIN WATER OR SOAP AND WATER.
Eye Contact:	IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION.
Notes to Physician:	THIS PRODUCT IS A STRONG, CAUSTIC ALKALINE CLEANER. TREAT SYMPTOMS WITH SUPPORTIVE MEASURES.

**SECTION 5:****FIRE AND EXPLOSION HAZARD DATA**

Flash Point/Method:	NONE
Lower Limit in Air:	N.A.
Upper Limit in Air:	N.A.
Extinguishing Media:	WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE.
Procedures:	FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN CONFINED AREAS.
Unusual Hazards:	NONE
Combustion Products:	IF WATER IS EVAPORATED, OXIDES OF CARBON AND NITROGEN MAY BE PRODUCED.

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**SECTION 6:****ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	THE WEARING OF SAFETY GLASSES, RUBBER GLOVES AND APRON ARE RECOMMENDED.
Environmental Precautions:	THIS PRODUCT HAS A LOW HAZARD POTENTIAL IF RELEASED INTO THE ENVIRONMENT ACCIDENTLY.
Procedures for Clean Up:	SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER, PREFERABLY TO A SANITARY SEWER. LARGER SPILLS MAY BE DIKED TO MINIMIZE RUN-OFF AND NEUTRALIZED WITH DILUTE ACID. LIQUID MAY BE ABSORBED IN SAWDUST OR ANY AVAILABLE ABSORBANT AND SWEEPINGS DISPOSED OF IN A LANDFILL. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.
Prohibited Materials:	NONE

**SECTION 7:****HANDLING AND STORAGE**

Handling:	THIS PRODUCT IS A STRONG ALKALINE MATERIAL AND THE WEARING OF INDICATED PROTECTIVE EQUIPMENT IS REQUIRED WHEN HANDLING THE UNDILUTED MATERIAL.
Storage:	KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

**SECTION 8:****EXPOSURE CONTROLS/PERSONAL PROTECTION**

Precautionary Measures:	STANDARD INDUSTRIAL HANDLING PRECAUTIONS.
Engineering Controls:	NONE
Control Limits:	NONE.
Equipment for Personal Protection:	EYEWASH STATION AND SAFETY SHOWER IN AREA OF USE.

**SECTION 9:****PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	AMBER LIQUID
Odor:	TRACE CHARACTERISTIC
pH (undiluted):	>13
Specific Gravity:	1.16-1.18
Density:	9.78 lbs./gal.
Solubility in Water:	COMPLETE
Boiling Point:	>212°F
Percent Volatile:	>60
Vapor Pressure (mmHg):	N.A.
Vapor Density:	N.A.
Evaporation Rate:	(water=1): ~1

**SECTION 10:****STABILITY AND REACTIVITY**

Stability:	STABLE
Conditions to Avoid:	NONE
Hazardous Polymerization:	STABLE
Conditions to Avoid:	NONE
Incompatibility:	MAY REACT WITH STRONG OXIDIZING AGENTS OR ACIDS.
Hazardous Decomposition Products:	IF WATER EVAPORATED, OXIDES OF CARBON & NITROGEN COULD BE PRODUCED BY COMBUSTION.

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**SECTION 11:****TOXICOLOGICAL INFORMATION**

Material & Tests:	POTASSIUM HYDROXIDE: Oral LD <sub>50</sub> RODENT >273 mg/l.
Symptoms:	SEVERE PAIN FROM BURNS IN CONTACTED AREAS.
Effects:	BURNS AND TISSUE DAMAGE.

**SECTION 12:****ECOLOGICAL INFORMATION**

Possible Effects:	TOXIC EFFECTS MINIMAL UNLESS SUFFICIENT MATERIAL TO DRASTICALLY EFFECT pH IS RELEASED.
Biodegradability:	ALL ORGANIC COMPONENTS ARE BIODEGRADABLE.
Persistence:	NOT PERSISTENT.
Aquatic Toxicity:	ESTIMATED >1000 ppm.

**SECTION 13:****DISPOSAL CONSIDERATIONS**

General Considerations:	THIS PRODUCT HAS A SUFFICIENTLY HIGH ENOUGH pH TO BE CONSIDERED A CORROSIVE WASTE.
Procedures:	DISPOSAL BY USE PREFERRED BUT IF THIS NOT POSSIBLE, DILUTE WITH COPIOUS QUANTITIES OF WATER, NEUTRALIZE WITH DILUTE ACID AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. HOWEVER, OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.

**SECTION 14:****TRANSPORT INFORMATION**

Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Primary Hazard Class:	8
Secondary Hazard Class:	NONE
Identification No.	UN3266
Packing Group:	PG II
1996 NAERG No.	154

**SECTION 15:****REGULATORY INFORMATION**

REGULATORY INFORMATION			
<u>Regulation</u>	<u>Material</u>	<u>RQ</u>	<u>Max. %</u>
CERCLA (40 CFR302.4):	POTASSIUM HYDROXIDE	5000 lbs.	15.0
	<u>Material</u>	<u>IPQ</u>	<u>Max. %</u>
SARA 302 (Sect. 355, Appendix A):	NONE		
	<u>Categories</u>	<u>Hazards</u>	
SARA 311/312 :	IMMEDIATE HEALTH	EYE, SKIN CORROSIVE	
	<u>Material</u>	<u>Max. %</u>	
SARA 313 (40 CFR 372.45):	NONE		
CWA (40 CFR 401.15):	NONE		
RCRA (40 CFR 261):	NONE	IF DISPOSED OF UNDILUTED, THIS PRODUCT WOULD BE A D002 CORROSIVE HAZARDOUS WASTE PER RCRA REGULATIONS.	
Notes:			
OSHA (29 CFR 1910.1200):	ALL COMPONENTS LISTED UNDER THIS STANDARD ARE SHOWN IN SECTION 2 OF THIS MSDS.		
TSCA	ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY.		

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### SPECIAL STATE REGULATIONS

<u>STATE</u> NONE	<u>INGREDIENT</u>	<u>%</u>	<u>REGULATORY DESIGNATION</u>

### SECTION 16 OTHER INFORMATION

#### SUGGESTED HAZARD RATINGS

<u>NFPA*</u>	<u>HAZARD</u>	<u>HMIS*</u>
2	HEALTH (Blue)	3
0	FIRE (Red)	0
0	REACTIVITY (Yellow)	0
	PERSONAL PROTECTION	D
	SPECIAL HAZARDS	

\*Notes: 0 = Insignificant; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme

Prepared By: Environmental Manager

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.