

IRM International Resource Management, Inc.

IRM 5461-NE

BIODEGRADABLE NON-EMULSIFYING CLEANER

INSTRUCTIONS FOR USE

Read the MSDS prior to using this product. IRM 5461-NE is specifically formulated as a concentrated general purpose cleaner for pressure washing and other applications where the oils and greases removed during the cleaning must subsequently be separated from the solution for removal in an oil separator. The special surfactants and inorganic builders used in formulating the product provide excellent cleaning and rinsing properties without emulsifying the oil and grease as most surfactants do. At the typical use dilutions of 3-12 ozs per gallon water (10-40:1), the oil and grease will rapidly pop to the surface for skimming while the cleaning solution can be recycled or dumped to a drain.

CAUTION

For industrial/commercial use only. Keep out of reach of children. May be toxic by ingestion. Keep containers tightly closed when not in use. Do not take internally. The concentrate is a skin and eye irritant. Wear safety glasses as a minimum when handling.

FIRST AID

If ingested, drink several glasses water to dilute. Do not induce vomiting. Get immediate medical attention. For eyes, flush with clear water for 15 minutes. Get medical attention if irritation persists. For skin, wash with soap and water.

INGREDIENTS

IRM 5461-NE contains potassium hydroxide (CAS No. 1310-58-3) sodium phosphate (CAS NO. 7601-54-9), sodium metasilicate (CAS NO. 6834-02-0), biodegradable surfactants and inorganic chelating agents.

SHIPPING INFORMATION

IRM 5461-NE is shipped as:

Corrosive Liquids, Basic, Inorganic N.O.S.
(Potassium Hydroxide Liquid)
8, UN3266, PG III
Compounds, Cleaning Liquid, N.O.S.
NAERG #154

SUGGESTED HAZARD RATING

HMMA		HMMS	
0	FLAMMABILITY	0	D
2	HEALTH		3
0	ENVIRONMENTAL		0
	PERSONAL PROTECTION		B
	SPECIAL HAZARD		

KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL OF THIS MATERIAL ON ITS CONTAINER. OPEN DUMPING IS PROHIBITED. THESE WASTE CONTAINER AND OFFER FOR RECYCLING OR RECONDITIONING. THOUGH RECYCLED CONTAINERS MAY BE RECYCLED BY AN INCINERATOR OR OTHERWISE APPROVED LASEPILL. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AGENCIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.

International Resource Management, Inc.

P.O. Box 571
Princeton, IL 61356
(815) 872-7430

THE SELLER WARRANTS THAT THIS PRODUCT CONFORMS TO ITS CHEMICAL DESCRIPTION AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THIS LABEL WHEN USED IN ACCORDANCE WITH DIRECTIONS UNDER NORMAL CONDITIONS OF USE. THE SELLER DOES NOT MAKE AND DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES OF FITNESS OR MERCHANTABILITY, GUARANTEE OR REPRESENTATION, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL. THIS PRODUCT IS SOLD ONLY ON THE BASIS THAT THE BUYER ASSUMES ALL RISK OF USE. THE BUYER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENT AND THE PROTECTION OF THE MATERIAL. IN RESPECT OF WHICH SUCH CLAIMS HAVE, IN NO EVENT, IN ALL THE STATES OF THE MANUFACTURER'S LABEL FOR SPECIAL, INDEBT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, STORAGE OR DISPOSAL OF THIS MATERIAL OR ITS CONTAINER.

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MATERIAL SAFETY DATA SHEET

FORMULA IRM-5461-NE

SECTION 1:**IDENTIFICATION**

Company Name:	International Resource Management, Inc.
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:	12/1/97

SECTION 2:**INGREDIENTS****Hazardous Ingredients**

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>	<u>TLV</u>
TETRASODIUM EDTA	64-02-8	<5.0	NONE ESTAB.
TRISODIUM PHOSPHATE	7601-54-9	<5.0	NONE ESTAB.
POTASSIUM HYDROXIDE	1310-58-3	<5.0	2mg/m ³ Ceiling
SODIUM METASILICATE	6834-92-0	<3.0	NONE ESTAB.

Non-Hazardous Ingredients

A BLEND OF SURFACTANTS, OTHER INORGANIC BUILDERS	>10	NONE ESTAB.
WATER	BAL.	NONE ESTAB.

SECTION 3:**HEALTH HAZARDS**

Ingestion:	MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY. DUE TO ALKALINITY, MAY BE IRRITATING TO INTERNAL TISSUES.
Inhalation:	NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF MIST IRRITATING TO RESPIRATORY TRACT.
Skin Contact:	PROLONGED CONTACT CAUSES IRRITATION.
Eye Contact:	MAY CAUSE SEVERE IRRITATION, POSSIBLE BURNS
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 MODERATELY STRONG ALKALINE CLEANER. TREAT SYMPTOMS WITH SUPPORTIVE MEASURES.

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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.

SECTION 6:**ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	THE WEARING OF SAFETY GLASSES IS RECOMMENDED.
Environmental Precautions:	THIS PRODUCT HAS A VERY 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. 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 HAS A LOW HAZARD POTENTIAL BUT NORMAL INDUSTRIAL HANDLING PRECAUTIONS SHOULD BE OBSERVED.
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 IN AREA OF USE.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	AMBER LIQUID
Odor:	TRACE CHARACTERISTIC
pH (undiluted):	<12.5
Specific Gravity:	1.065-1.085
Density:	8.97 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.

SECTION 11: TOXICOLOGICAL INFORMATION

Material & Tests:	TRISODIUM PHOSPHATE: Oral LD ₅₀ Rat & Rabbits >300 mg/l, POTASSIUM HYDROXIDE: Oral LD ₅₀ RODENT >273 mg/l.
Symptoms:	None known
Effects:	None known

SECTION 12: ECOLOGICAL INFORMATION

Possible Effects:	PHOSPHATES ARE NUTRIENTS FOR ALGAE GROWTH.
Biodegradability:	ALL ORGANIC COMPONENTS ARE BIODEGRADABLE.
Persistence:	NOT PERSISTENT.
Aquatic Toxicity:	ESTIMATED >1000 ppm.

SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations:	THIS PRODUCT HAS A LOW HAZARD PROFILE AND WOULD NOT NORMALLY BE CONSIDERED A HAZARDOUS WASTE.
Procedures:	DISPOSAL BY USE PREFERRED BUT IF THIS NOT POSSIBLE, DILUTE WITH COPIOUS QUANTITIES OF WATER AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. HOWEVER, OBEY ALL

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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.	UN 3266
Packing Group:	III
1996 NAERG No.	154

SECTION 15:**REGULATORY INFORMATION**

<u>Regulation</u>	<u>Material</u>	<u>RQ</u>	<u>Max. %</u>
CERCLA (40 CFR302.4):	POTASSIUM HYDROXIDE	5000 lbs.	5.0
SARA 302 (Sect. 355, Appendix A):	<u>Material</u> NONE	<u>TPO</u>	<u>Max. %</u>
SARA 311/312 :	<u>Categories</u> IMMEDIATE HEALTH	<u>Hazards</u> EYE IRRITANT	
SARA 313 (40 CFR 372.45):	<u>Material</u> NONE		<u>Max. %</u>
CWA (40 CFR 401.15):	NONE		
RCRA (40 CFR 261):	NONE		
Notes:	THIS PRODUCT NOT A HAZARDOUS WASTE PER RCRA REGULATIONS.		
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.		

SPECIAL STATE REGULATIONS

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

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SECTION 16

OTHER INFORMATION

SUGGESTED HAZARD RATINGS

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

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

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.