SECTION 1:	IDENTIF	FICATION	
Company Name:	Chemworld		
Áddress:	885 Woodstock Road		
	Ste 430-111		
	Roswell, GA 30075		
Phone No.	800.658.7716		
Fax No.	877.209.1556		
Emergency Phone No.	CHEM-TEL 800-255-3924		
Date Prepared:	5/23/06		
Date Revised:	5/19/09		
SECTION 2:	INGRED	DIENTS	
MATERIAL		CAS NO.	<u>%</u>
PHOSPHONOCARBOX	YLIC ACID, POTASSIUM SALT	PROPRIETARY	3 – 7
HYDROXYPHOSPHON	OACETIC ACID, POTASSIUM SALT	129836-12-0	1 – 5

SODIUM TOLYTRIAZOLE 64665-57-2 POTASSIUM PHOSPHATE 7778-53-2 POTASSIUM HYDROXIDE 1310-58-3

SECTION 3:		HEALTH HAZARDS
	Ingestion:	MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY.
	Inhalation:	NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF MIST MAY BE IRRITATING TO RESPIRATORY TRACT.
	Skin Contact:	NOT AN IRRITANT
	Eye Contact:	CAUSES IRRITATION.
Othe	er 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. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET
Inhalation:	MEDICAL ATTENTION.
	REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS
Skin Contact:	PERSIST.
Eye Contact:	WASH WITH PLAIN WATER OR SOAP AND WATER.
	IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL
Notes to Physician:	
	NO ANTIDOTES KNOWN. TREAT SYMPTOMS SUPPORTIVELY.

SECTION 5:

#### FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method:	
Upper/Lower Limit in Air::	
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 PHOSPHORUS MAY BE
	PRODUCED.

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SECTION 6:	ACCIDENTAL RELEASE MEASURES
Personal Precautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT AS RECOMMENDED IN SECTION 8.
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.

SECTION 7:	HANDLING AND STORAGE
Handling Storage	NORMAL INDUSTRIAL HANDLING PRACTICES. 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. WASH THOROUGHLY AFTER HANDLING CHEMICALS.
Engineering Controls:	USE WITH ADEQUATE VENTILATION TO KEEP EXPOSURES BELOW OCCUPATIONAL EXPOSURE LIMITS.
Control Limits:	POTASSIUM HYDROXIDE: OSHA PEL: 2 mg/m3 Ceiling; ACGIH TLV: 2 mg/m3 Ceiling.
Equipment for Personal	°
Protection:	SAFETY GLASSES WITH SIDE SHIELDS AND IMPERMEABLE GLOVES SHOULD BE
	WORN WHEN HANDLING THE CONCENTRATED PRODUCT. EYEWASH STATION AND SAFETY SHOWER IN AREA OF USE.

SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES
Appearance:	DARK AMBER LIQUID
Odor:	CHARACTERISTIC
pH (undiluted):	<12.5
Specific Gravity:	1.09 – 1.11
Density:	9.2 lbs./gal.
Solubility in Water:	COMPLETE
Boiling Point:	212°F
Percent Volatile:	>70 (WATER)
Vapor Pressure (mmHg):	N.D.
Vapor Density:	N.D.
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 AND PHOSPHORUS COULD BE
	PRODUCED BY COMBUSTION.

SECTION 11:	TOXICOLOGICAL INFORMATION
Material & Tests:	POTASSIUM HYDROXIDE: ORAL LD50 (RAT) >273 mg/kg; PHOSPHONO- CARBOXYLIC ACID, SODIUM SALT: ORAL LD50 (RAT) >5g/kg, DERMAL LD50 (RABBIT) >2g/kg; HYDROXYPHOSPHONO-ACETIC ACID, POTASSIUM SALT: ORAL LD50 (RAT) 2750 mg/kg; SODIUM TOLYLTRIAZOLE: ORAL LD50 (MALE RATS) 920 mg/kg, (FEMALE RATS) 640 mg/kg.

SECTION 12:	ECOLOGICAL INFORMATION
Aquatic Toxicity:	POTASSIUM HYDROXIDE: 96 HR LC50 FATHEAD MINNOW = 179 mg/l; 48 HR EC50 WATER FLEA = 60 mg/l; 96 HR EC50 GREEN ALGAE = 61 mg/l. PHOSPHONO- CARBOXYLIC ACID, SODIUM SALT: LC50(96 hr.) BLUEGILL > 1,000 ppm; LC50 (96 hr) RAINBOW TROUT = 1200 ppm; EC50 (48 hr) DAPHNIA MAGNA = 1800 ppm. HYDROXYPHOSPHONOACETIC ACID: RAINBOW TROUT (96 Hr LC50) 180 ppm, DAPHNIA MAGNA (48 Hr EC50) >140 ppm; SODIUM TOLYLTRIAZOLE: RAINBOW TROUT (96 Hr LC50) 23.7 ppm, BLUEGILL SUNFISH (96 Hr LC50) 191.2 ppm, DAPHNIA MAGNA (48 Hr EC50) 245 ppm.

SECTION 13:	DISPOSAL CONSIDERATIONS
	THIS PRODUCT WOULD NOT BE CONSIDERED A HAZARDOUS WASTE. DISPOSAL BY USE PREFERRED BUT IF THIS NOT POSSIBLE, DILUTE WITH COPIOUS QUANTITIES OF WATER AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.

SECTION 14:	TRANSPORT INFORMATION	

Shipping Name: COMPOUNDS, WATER TREATMENT, N.O.S. (NOT REGULATED BY US DOT	)
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SECTION 15:	REGULATORY INFORMATION				
Regulation CERCLA (40 CFR302.4):	<u>Material</u> POTASSIUM HYDROXIDE	<u>RQ</u> 1000 lbs.	<u>Max. %</u> 1		
SARA 302 (Sect. 355, Appendix A):	<u>Material</u> NONE	<u>TPQ</u>	<u>Max. %</u>		
SARA 311/312:	<u>Categories</u> IMMEDIATE HEALTH		<u>Hazards</u> ⁄E 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				
OSHA (29 CFR 1910.1200):	ALL COMPONENTS LISTED UNDER THIS STANDARD ARE SHOWN IN SECTION 2 OF THIS MSDS. ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY.				
TSCA:	ALL INGREDIENTS IN THIS P	RODUCT ARE LIST	ED IN THE ISCA INVEN	IURY.	

## SPECIAL STATE REGULATIONS

STATE INGREDIENT NONE	<u>%</u>	REGULATORY DESIGNATION
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### **SECTION 16 OTHER INFORMATION**

SUGGESTED HAZARD RATINGS					
<u>NFPA</u> * 2 0 0	<u>HAZARD</u> HEALTH (Blue) FIRE (Red) REACTIVITY (Yellow) PERSONAL PROTECTION	<u>HMIS</u> * 2 0 8 B			
	SPECIAL HAZARDS				

SUCCESTED UNTADD DATINGS

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

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.