

# MATERIAL SAFETY DATA SHEET

## 15%POLYMERIC QUATERNARY AMINE

### SECTION 1:

### IDENTIFICATION

Company Name: Address:  Phone No. Fax No. Emergency Phone No. Date Prepared: Date Revised:	Chemworld 885 Woodstock Road Ste 430-111 Roswell, GA 30075 800.658.7716 877.209.1556 CHEM-TEL 800-255-3924 9/23/09 NONE
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### SECTION 2:

### INGREDIENTS

MATERIAL	CAS NO.	%
POLY(OXYETHYLENE(DIMETHYLIMINIO)ETHYLENE-(DIMETHYLIMINIO)ETHYLENE DICHLORIDE	31512-74-0	15

### SECTION 3:

### HEALTH HAZARDS

Ingestion: Inhalation:  Skin Contact:  Eye Contact:	INGESTION IS NOT EXPECTED TO BE A PRIMARY ROUTE OF EXPOSURE. SLIGHTLY HAZARDOUS IN CASE OF INHALATION. EFFECTS WILL DEPEND ON CONCENTRATION AND LENGTH OF TIME OF EXPOSURE. SLIGHTLY HAZARDOUS IN CASE OF SKIN CONTACT (IRRITANT). NON-SENSITIZER FOR SKIN. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING, OR, OCCASIONALLY, BLISTERING. SLIGHTLY HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT)
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### SECTION 4:

### FIRST AID

Ingestion:  Inhalation:  Skin Contact:  Eye Contact:	<p><b>DO NOT INDUCE VOMITING.</b> RINSE WITH COPIOUS AMOUNTS OF WATER OR MILK, FIRST. IRRIGATE THE ESOPHAGUS AND DILUTE STOMACH CONTENTS BY SLOWLY GIVING ONE (1) TO TWO (2) GLASSES OF WATER OR MILK. AVOID GIVING ALCOHOL OR ALCOHOL RELATED PRODUCTS. IN CASES WHERE THE INDIVIDUAL IS SEMI-COMATOSE, COMATOSE OR CONVULSING, <b>DO NOT GIVE FLUIDS BY MOUTH.</b> IN CASE OF INTENTIONAL INGESTION OF THE PRODUCT SEEK MEDICAL ASSISTANCE IMMEDIATELY; TAKE INDIVIDUAL TO NEAREST MEDICAL FACILITY.</p> <p>IF EXPOSURE BY INHALATION IS SUSPECTED, IMMEDIATELY MOVE EXPOSED INDIVIDUAL TO FRESH AIR. IF INDIVIDUAL EXPERIENCES NAUSEA, HEADACHE, DIZZINESS, HAS DIFFICULTY IN BREATHING OR IS CYANOTIC, SEEK A HEALTH CARE PROFESSIONAL IMMEDIATELY.</p> <p>WASH EXPOSED AREA WITH PLENTY OF WATER. REPEAT WASHING. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. IF IRRITATION PERSISTS CONSULT A HEALTH CARE PROFESSIONAL.</p> <p>FLUSH IMMEDIATELY WITH COPIOUS AMOUNTS OF TAP WATER OR NORMAL SALINE (MINIMUM OF 15 MINUTES). TAKE EXPOSED INDIVIDUAL TO A HEALTH CARE PROFESSIONAL, PREFERABLY AN OPHTHALMOLOGIST, FOR FURTHER EVALUATION.</p>
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### SECTION 5:

### FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: Upper/Lower Limit in Air: Extinguishing Media: Special Firefighting Instructions:	> 212° F (>100° C)/TAGLIABUE N.A./N.A. WATER FOG, CARBON DIOXIDE, FOAM, DRY CHEMICAL  FIRE-FIGHTERS SHOULD WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL TURNOUT GEAR. SAFE DISTANCE.
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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Procedures for Clean Up:	INITIALLY MINIMIZE AREA AFFECTED BY THE SPILL OR LEAK. BLOCK ANY POTENTIAL ROUTES TO WATER SYSTEMS (E.G., SEWERS, STREAMS, LAKES, ETC.). BASED ON THE PRODUCT'S TOXICOLOGICAL AND CHEMICAL PROPERTIES, AND ON THE SIZE AND LOCATION OF THE SPILL OR LEAK, ASSESS THE IMPACT ON CONTAMINATED ENVIRONMENTS (E.G. WATER SYSTEMS, GROUND, AIR EQUIPMENT, ETC.). THERE ARE NO METHODS AVAILABLE TO COMPLETELY ELIMINATE ANY TOXICITY THIS PRODUCT MAY HAVE ON AQUATIC ENVIRONMENTS. MINIMIZE ADVERSE EFFECTS ON THESE ENVIRONMENTS. DETERMINE IF FEDERAL, STATE, AND/OR LOCAL RELEASE NOTIFICATION IS REQUIRED (SEE REGULATORY CLASSIFICATIONS SECTION OF THIS MSDS). RECOVER AS MUCH OF THE PURE PRODUCT AS POSSIBLE INTO APPROPRIATE CONTAINERS. LATER, DETERMINE IF THIS RECOVERED PRODUCT CAN BE USED FOR ITS INTENDED PURPOSE. ADDRESS CLEAN-UP OF CONTAMINATED ENVIRONMENTS. SPILT OR LEAK RESIDUALS MAY HAVE TO BE COLLECTED AND DISPOSED OF. CLAY, SOIL, OR COMMERCIALY AVAILABLE ABSORBENTS MAY BE USED TO RECOVER ANY MATERIAL THAT CAN NOT READILY BE RECOVERED AS PURE PRODUCT. FLUSHING RESIDUAL MATERIAL TO AN INDUSTRIAL SEWER, IF PRESENT AT THE SITE OF A SPILL OR LEAK INCIDENT, MAY BE ACCEPTABLE IF AUTHORIZED APPROVAL IS OBTAINED. IF PRODUCT AND/OR SPILL/LEAK RESIDUALS ARE FLUSHED TO AN INDUSTRIAL SEWER, INSURE THAT THEY DO NOT COME INTO CONTACT WITH INCOMPATIBLE MATERIALS. CONTACT THE PERSON(S) RESPONSIBLE FOR THE OPERATION OF YOUR FACILITY'S INDUSTRIAL SEWER SYSTEM PRIOR TO INTENTIONALLY FLUSHING OR PUMPING SPILLS OR LEAKS OF THIS PRODUCT TO THE INDUSTRIAL SEWER.
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**SECTION 7: HANDLING AND STORAGE**

Handling:	RUBBER GLOVES AND SAFETY GLASSES OR GOGGLES ARE RECOMMENDED. EYE-WASH FOUNTAINS IN THE WORK PLACE ARE RECOMMENDED.
Storage:	KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. DO NOT STORE NEAR FOOD, FOODSTUFF, DRUGS OR POTABLE WATER SUPPLIES. STORAGE MUST ONLY BE IN ORIGINAL CONTAINERS. DO NOT ALLOW TO FREEZE.

**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:	NONE
Equipment for Personal Protection:	SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES AND IMPERMEABLE GLOVES AND CLOTHING SHOULD BE WORN WHEN HANDLING THE CONCENTRATED PRODUCT. EYEWASH STATION AND SAFETY SHOWER IN AREA OF USE.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	CLEAR, PALE YELLOW LIQUID
Odor:	MILD
pH (undiluted):	6 – 8
Density:	1.15
Solubility in Water:	SOLUBLE
Boiling Point:	> 212° F (>100° C)
Freezing/Melting Point:	3° F (-16° C)
Vapor Pressure (mmHg):	NA

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Vapor Density:	NA
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### SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	STABLE UNDER NORMAL CONDITIONS OF USE AND STORAGE
Incompatibility:	ANIONIC POLYMERS
Hazardous Decomposition Products:	CARBON MONOXIDE MAY BE FORMED UPON BURNING

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 (MALE RAT) = 1951 mg/kg; LD50 (FEMALE RAT) = 2587 mg/kg
Acute Dermal Toxicity:	LD50 (RABBIT) >2,000 mg/kg
Acute Inhalation Toxicity:	LD50 (RAT, 4 HRS) = 2.9 mg/l
Carcinogenicity:	NOT SHOWN AS A CARCINOGEN BY OSHA, IARC, OR NTP. A TWO YEAR RAT CARCINOGENICITY STUDY SHOWED A SLIGHT INCREASE IN C-CELL ADENOMAS IN FEMALE RATS. STUDIES WITH MALE RATS AND MALE AND FEMALE MICE DID NOT SHOW ANY EVIDENCE OF CARCINOGENIC RESPONSE.

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	48 HR. LC50 (INVERTEBRATE) = 0.37 mg/l; 96 HR. LC50 (FATHEAD MINNOW) = 0.26 mg/l; 96 HR. LC50 (BLUEGILL SUNFISH) = 0.21 mg/l; 96 HR. LC50 (RAINBOW TROUT) = 0.047 mg/l; 96 HR. LC50 (SHEEPSHEAD MINNOW) > 600 mg/l; 96 HR. LC50 (MYSID SHRIMP) = 13 mg/l;
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### SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations:	THIS PRODUCT WOULD NOT BE CONSIDERED A RCRA HAZARDOUS WASTE. HOWEVER, SPILL OR LEAK RESIDUALS MAY MEET THE CRITERIA OF A CHARACTERISTIC HAZARDOUS WASTE. CHECK THE CHARACTERISTICS OF THE MATERIAL TO BE DISPOSED OF AND/OR THE PHYSICAL AND REACTIVITY DATA GIVEN IN THIS MSDS FOR THE NEAT PRODUCT.
Procedures:	DISPOSAL BY USE PREFERRED. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.

### SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name:	NOT REGULATED BY US DOT
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### SECTION 15: REGULATORY INFORMATION

<u>Regulation</u>	<u>Material</u>	<u>RQ</u>	<u>Max. %</u>
CERCLA (40 CFR302.4):	NONE		
SARA 302 (Sect. 355, Appendix A):	<u>Material</u>	<u>TPQ</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>		<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.		
TSCA (40 CFR 710):	THE SUBSTANCES IN THIS PREPARATION ARE INCLUDED ON OR EXEMPTED		

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FROM THE TSCA INVENTORY.

### SECTION 16 OTHER INFORMATION

#### SUGGESTED HAZARD RATINGS

<u>NFPA*</u>	<u>HAZARD</u>	<u>HMIS*</u>
1	HEALTH (Blue)	1
1	FIRE (Red)	1
0	REACTIVITY (Yellow)	0
	PERSONAL PROTECTION	D
	SPECIAL HAZARDS	

\*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.