

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

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

FLAMMABILITY	1
HEALTH	1
REACTIVITY	1
SPECIAL	

FORMULA 4115

Aqualine Water Treatment Products, Inc.
2371 Farrington Point Drive
Winston-Salem, NC 27107

24 Hour Emergency Phone
Chemtel: 800-255-3924

Revision: 07/2008

SECTION 1	OSHA HAZARD CLASSIFICATIONS
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Eye irritant.

SECTION 2	HAZARDOUS COMPONENTS
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<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>TLV</u>
Poly [oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride]	31075-24-8	15 %	N/A

(dimethyliminio)ethylene dichloride]

Total listed: 15 %

The remainder of the components comprise proprietary information.

Product Weight 8.4 lb/gal. 1.01 kg/L

SECTION 3	PRECAUTIONARY LABEL INFORMATION AS PRESCRIBED BY THE U.S. EPA
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CAUTION: Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing.

FIRST AID: If swallowed, drink large quantities of water. DO NOT INDUCE VOMITING. Get medical attention immediately. If in eyes: flush with plenty of water for at least 15 minutes. Consult a physician if irritation occurs. In case of Skin Contact: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation occurs.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. Keep out of lakes, streams, or ponds. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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SECTION 4 FIRST AID INFORMATION

Eye exposure: 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.

Skin exposure: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation: 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.

Ingestion: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach content 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, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

NOTE TO PHYSICIAN: No specific antidote is known. Probable mucosal damage may contraindicate the use of gastric lavage. Treat Symptoms.

SECTION 5 PRIMARY ROUTES OF EXPOSURE

SECTION 6 TOXICOLOGICAL INFORMATION

Acute effects:

Acute Oral LD50: 3,700.0mg/kg

Acute Dermal LD50: >2,000.0 mg/kg

Acute Inhalation LC50: > 26.4 mg/L

Irritant effects: Eye irritant.

Sensitization effects: None known.

Carcinogenic potential: Not listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic; not tested by Aqualine Water Treatment Products, Inc.

Target Organ Effects:

Other health effects: None known.

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SECTION 7	Reserved for ENVIRONMENTAL TOXICOLOGICAL INFORMATION
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SECTION 8	PHYSICAL AND CHEMICAL PROPERTIES
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Appearanceclear, brown liquid
Odorslight
Density @ 25degrees C1.03 g/mL
Flash Point>212 degrees F
Freezing Point N/T
Boiling Point>212 degrees F
Solubility completely soluble in water.
pH6
pH (100 ppm in water) 6-7
Vapor Pressure N/T
o/w Partition Coefficient N/T
Oxidizing/Reducing Properties0.2% in water @ 25 degrees C/77 degrees F

Note: N/A = Not Applicable, N/T = Not Tested

SECTION 9	FIRE AND EXPLOSION INFORMATION
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Flammable limits: Not applicable.
Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical
Special firefighting procedures: None.

SECTION 10	REACTIVITY INFORMATION
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Stability: stable
Incompatibility: None known, Not tested.
Hazardous Decomposition Products: None known

SECTION 11	HANDLING PRECAUTIONS
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Rubber gloves and safety glasses or goggles are recommended

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SECTION 12 SATISFACTORY MATERIALS OF CONSTRUCTION

Tested Satisfactory Materials

Polypropylene	Tygon
Plexiglass	Tyrl 880
Teflon	Gum Rubber
PVC-rigid	Silicone Rubber
Buna-N rubber	Hypalon
Viton	Aluminum 5052-H34
EPDM rubber	
PVC- flexible	
Neoprene	
Fiberglass	
Polyethylene-low density	

Note: With respect to all other materials not listed above, user should be aware that use of such materials with **Aqualine 4115** may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such materials not listed above should be implied by the user.

SECTION 13 SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL AND LEAK RESPONSE GUIDELINES

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Emergency Response Assistance: 24 hour emergency technical assistance, call Chemtel at 800-255-3924

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. Aqualine Water Treatment Products Inc. can be contacted for technical assistance. 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 container. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents

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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.

DISPOSAL GUIDELINES

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact Aqualine Water Treatment Products, Inc., at (336) 768-5264.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. 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.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

SECTION 14	TRANSPORTATION AND SHIPPING INFORMATION
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DOT Shipping Name: NONHAZARDOUS
The shipping name listed above applies only to a 55 gallon drum of the product. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment. All products shipped from Aqualine have been properly packaged and labeled according to appropriate hazardous shipping regulations that apply for that particular shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply. If there are any questions pertaining to hazardous shipping requirements, contact Aqualine for further details.

SECTION 15	REGULATORY INFORMATION
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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.

SARA(Superfund Amendments and Reauthorization Act):

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SARA 302 Extremely Hazardous Substances List: No components of this product are listed.

SARA 312 Hazard Category: Immediate (Acute) Health Hazard.

SARA 313 Toxic Chemicals List: No Section 313 listed substances are present above de minimus levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): No components of this product are listed.

RCRA (Resource Conservation and Recovery Act) Listed Hazardous Wastes: No components of this product are listed.

CWA (Clean Water Act) Listed Substances: No components of this product are listed.

FDA (Food and Drug Administration): This product not approved for food contact uses.

TSCA (Toxic Substances Control Act) Applicability: Registered pesticides are exempt from the requirements of TSCA. All components may not be listed on TSCA Inventory.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): This product is a registered pesticide. EPA Reg. No. 1448-212-67397.

HMIS/NPCA Ratings: Health 1; Flammability 1; Reactivity 1

NFPA Ratings: Health 1; Flammability 1; Reactivity 1

STATE REGULATIONS

California Proposition 65: This product has been reviewed for Prop 65 components, and the following warning applies:

WARNING: This product may contain substance(s) which are known to the State of California to cause cancer or reproductive harm.

(Contains Trace levels of Dichloroethyl Ether and 1,4-dioxane may be detectable)

(Trace Contaminants from Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride])

Various State Right to Know Acts: Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data sheet is the responsibility of the user. This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations.

Aqualine Water Treatment Products, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.