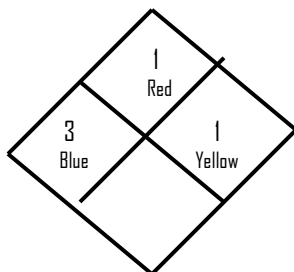


Arc



MATERIAL SAFETY DATA SHEET

Water Treatment Company of MD, Inc.

ARBSC

Revision Date: November 1, 2011

Arc Water Treatment Company of MD, Inc.
10620 Riggs Hill Road, Unit J
Jessup, MD 20794-9431

24 Hour
Emergency Phone
1-800-255-3924

SECTION 1 OSHA HAZARD CLASSIFICATIONS

Expected to be corrosive to eyes and skin. Avoid inhalation of mists or Vapors.

SECTION 2 HAZARDOUS COMPONENTS

Chemical Name	CAS NUMBER	% by Wight	TVL
Acetic Acid	64-19-7	< 1 %	10 ppm,25gm/m3

Total Listed: 1%

The remainder of the components comprise proprietary information.

SECTION 3 PRECAUTIONARY LABEL INFORMATION AS PRESCRIBED BY THE U. S. EPA

This section not applicable to non-biocides.

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 inhalations 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 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, **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

1. Effects from Acute Exposure:

Eye exposure: Corrosive. Effects may range from moderate to severe (corrosion) depending on length of exposure, Solution concentration and first aid measures.

Skin exposure: Corrosive. Effects may range from moderate to severe (corrosion) depending on the length of exposure, Solution concentration and first aid measures.

Inhalation: May cause irritation or corrosion of mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis or pneumonia.

Ingestion: Ingestion is not expected to be a primary route of exposure.

2. Effects from Chronic Exposure:

The effects from chronic exposure to this product have not been fully evaluated.

SECTION 6 TOXICOLOGICAL INFORMATION

Acute Effects: Not tested. Expected to be moderately toxic based on components.

Irritant effects: Expected to be corrosive to eyes and skin.

Sensitization effects: Not tested. Possible sensitizer.

Carcinogenic potential: Not tested by Arc Water Treatment Company of MD Inc. Not shown as a carcinogen by OSHA< IARC or NTP>

Target Organ Effects: Skin and eyes (burn and corrosion) are expected to be the target organs for this product.

Other Health effects: None known.

SECTION 7 Reserved for ENVIRONMENTAL TOXICOLOGICAL INFORMATION

SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....Clear, amber liquid

Odor.....slight amine

Density @ 25 C.....0.95 g/mL

Flash Point.....>220 F expected

Freezing Point.....N/T

Boiling Point.....N/T

Solubility.....disperses in water

pH.....4.5- 5.5

pH (100 ppm in water).....5.1- 5.6

Vapor Pressure.....N/T

o/w Partition Coefficient.....N/T

Oxidizing/Reducing Properties.....N/T

NOTE; N/A = NOT APPLICABLE, N/T = NOT TESTED

SECTION 9 FIRE AND EXPLOSION INFORMATION

Flammable limits: Not determined.

Extinguishing media: Water fog, carbon dioxide, foam, dry chemical

Special firefighting procedures: Fire fighters should wear full protective gear, including self contained breathing apparatus.

SECTION 10 REACTIVITY INFORMATION

Stability: Stable under ordinary conditions of use and storage.

Incompatibility: strong acids, strong alkali, strong oxidizers

Hazardous Decomposition Products: oxides of carbon, oxides of nitrogen, and /or ammonia

SECTION 11 HANDLING PRECAUTIONS

Local exhaust should be maintained to control vapor level.

When misting may occur in the work area, a respirator that filters out organic vapors is required.

Eye wash fountains in the work place are strongly recommended.

Rubber gloves, indirect ventilation goggles, body-protective clothing, and rubber safety shoes are required

A comprehensive respiratory protection program is needed when respirator must be used.

SECTION 12 SATISFACTORY MATERIALS OF CONSTRUCTION

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: Emergency technical assistance is available at any time from Chem-Tel by Calling 1-800-255-3924.

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 environment its (e.g. water systems, ground, air equipment, etc.). There are not methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Arc Water Treatment Company of MD, 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 containers. 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 may be used to recover any 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.

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 net 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
-------------------	--

DOT Shipping Name: ACETIC ACID SOLUTIONS, 8, UN 2790, PGII (ERG GUIDE 60).

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 Arc Water Treatment Company of MD, Inc. locations 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 the Arc Water Treatment Company of MD Inc. transportation department for further details.

SECTION 15	REGULATORY INFORMATION
-------------------	-------------------------------

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);

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); The following components are listed on the CERCLA Hazardous Substances List (may be listed as categories): Acetic Acid, RQ=5,000

RCRA (Resources Conservation and Recovery Act) Listed Hazardous Wastes: The following components are

RCRA listed or characteristic hazardous wastes: Acetic Acid

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.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): This product is not a registered pesticide.

HMIS/NPCQ Rating: Health 3: Flammability 1: Reactivity 1

NDPA Rating: Health 3: Flammability 1: Reactivity 1

STATE REGULATIONS

Various State Right to Know Acts: Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary chemicals or inserts please contact Arc Water Treatment Company of MD, Inc.

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 communications regulations.

Arc Water Treatment Company of MD, 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. Buyers 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 on 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 contact, or breach thereof, shall be settled by arbitrations in accordance with the commercial arbitration rules of the American Arbitrations Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.