

## Water Safety Month 2023

### SDS Training

In 2012 OSHA required all chemical manufacturers, distributors, or importers to have a published Safety Data Sheet (SDS) on every chemical they provide. These Safety Data Sheets inform all chemical handlers on the dangers of the chemical they are handling.

It is VERY important that you read, know and have available the SDS sheet on EVERY chemical you handle.

#### Employer Responsibilities:

- Maintain SDS sheets for each chemical in the workplace.
- Obtain SDS not received with chemical shipments from the supplier.
- Give employees access to SDS in their work areas during their shifts.
- Backup SDS electronically.
- Inform employees about chemical hazards in the workplaces..
- Train employees on the information contained in SDS.

### What is on a SDS sheet?!

The following sections are mandatory for every SDS sheet to include

#### Section 1: Identification

This section identifies the chemical on the SDS as well as recommended uses. It provides essential contact information of the supplier

- Product identifier used on the label
- Common names or synonyms
- Name, address, phone number of manufacturer, importer, or other responsible party and emergency phone number
- Recommended use of the chemical.

**Section 1: Identification**

**Product/Chemical Name:** Active Rx Scale & Metal Control  
**Chemical Formula:** Proprietary  
**CAS Number:** N/A  
**Other Designations:** None  
**General Use:** Scale control and metals chelation in recreational water systems.

- **Manufacturer:**  
**Vivo Aquatics**  
 245 W. Foothill Blvd  
 Monrovia, CA 91016  
 888-702-8486  
[service@vivoaquatics.com](mailto:service@vivoaquatics.com)  
manufactured by Orinda Technologies

#### Section 2: Hazard(s) Identification


This section identifies the hazards of the chemical presented on the SDS and the appropriate warning information associated with those hazards.


- The hazard classification of the chemical
- Signal word.
- Hazard Statement (s).
- Pictograms
- Precautionary statements
- Description of any hazards not otherwise classified.
- Mixture of chemical

**Section 2: Hazard(s) Identification**

**Hazardous Statement:**  
 The precise composition of ACTIVE RX Scale & Metal Control is proprietary information. A more complete disclosure will be made to an attending physician in the event of a medical emergency involving this product. When utilized in accordance with Vivo Aquatics, ACTIVE RX is considered to be environmentally safe, nontoxic and nonhazardous.

**Precautionary statements:**  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wash thoroughly after handling.  
 Specific treatment (see on this label).  
 Take off contaminated clothing and wash before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.

**Classification system:**  
**NFPA ratings (scale 0 - 4)**  
 Health = 1  
 Fire = 0  
 Reactivity = 0

**HMIS-ratings (scale 0 - 4)**  
 Health = 1  
 Fire = 0  
 Reactivity = 0

**SAFETY DATA SHEET**  
 Issue Date July 2018  
 Revision Date April 2021  
 Version 5

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**  
**Product Name:** ACID Magic<sup>®</sup> Advanced Formula  
**Other Means of Identification:** USA/SDS105  
**SDS #:** USA  
**Product Code:** UN1700  
**UNITE No.:** The User Friendly Muratic Acid™™™  
**Synonyms:** \*ACID Magic should not be used to acid or etch any pool disinfectant product or other water modifier.

**Recommended Use of the Chemical and Restrictions on Use:**  
**Recommended Use:** Clean, caustic and etches like full strength muratic acid.\*  
**Details of the Supplier of the Safety Data Sheet:**  
**Supplier Address:** Certol International, L.L.C.  
 8120 East 68th Avenue  
 Commerce City, Colorado 80022  
[www.certol.com](http://www.certol.com)  
 Phone: 303-799-9401  
 Toll Free: 1-800-843-3343  
 Fax: 303-799-9400

**24 Hour Emergency Telephone:**  
 INFOTRAC: 1-800-535-5053 (North America)  
 INFOTRAC: 1-352-323-3500 (International)

## Section 3: Ingredients

This section identifies the ingredients to include impurities and stabilizing additives.

- Substances to include- chemical name, common name and synonyms.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Mixtures and concentration limits,
- Health risk of concentration limits.
- Concentration of each ingredient.

### Section 3: Composition Information on Ingredients

- CAS Number: N/A
- ACTIVE RX Scale & Metal Control is an aqueous solution designed to control both metal and calcium. The exact formulation is proprietary and a trade secret.

## Section 4: First Aid Measures

This section describes the initial care that should be given by untrained responders in an emergency situation.

- Necessary First- aid instructions by relevant routes of exposure.
- Description of the most important symptoms or effects and any symptoms caused by the chemical.
- Recommendations for immediate medical care.

### Section 4: First-Aid Measures

- Description of First Aid Measures:

**Inhalation:** In the improbable event of product inhalation, remove the affected individual to fresh air and provide fresh air or artificial respiration as required. Obtain medical attention.  
**Eye Contact:** Flush thoroughly with water for five minutes and obtain medical attention if irritation of eye membranes persists.  
**Skin Contact:** Wash contacted areas with soap and water; apply emollient skin cream to minimize dryness and seek medical attention if irritation persists.  
**Ingestion:** Drink several glasses of water. Obtain medical attention.  
**After first aid, get appropriate in-plant, paramedic, or community medical support if exposure symptoms persist.**  
**Note to Physicians:** Under normal use and human exposure conditions, the product is considered nontoxic and nonhazardous.  
**Special Precautions/Procedures:** None  
**Ingestion:** With substantial and/or long term ingestion of the as-received product, possible delayed blood clotting, sensitivity to heat, skin itching, increased odor and taste awareness, and liver damage.  
**Carcinogenicity:** IARC, NTP, and OSHA do not list ACTIVE RX or its components as carcinogens.  
**Medical Conditions Aggravated by Long-Term Exposure:** None known.  
**Chronic Effects:** There are no known chronic effects except as indicated above under Acute Effects.

## Section 5: Fire-Fighting Measures

This section Provides recommendations for fighting a fire caused by the chemical.

- Recommendation of suitable extinguishing equipment and information about extinguishing a fire.
- Advice on specific hazards that develop from the chemical during the fire.
- Recommendations on special protective equipment or precautions for firefighters.

### Section 5: Fire-Fighting Measures

**Flash Point:** (> 200°F)  
**Flash Point Method:** N/A  
**Burning Rate:** N/A  
**Autoignition Temperature:** N/A  
**LEL:** N/A  
**UEL:** N/A  
**Flammability Classification:** N/A  
**Extinguishing Media:** N/A  
**Unusual Fire or Explosion Hazards:** None  
**Hazardous Combustion Products:** Thermal oxidative decomposition of the product may release toxic fumes of CO, CO<sub>2</sub> and NO.  
**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.  

- **Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 6: Accidental Release Measures

This section Provides recommendations on the appropriate response to spills, leaks, or releases.

- Use of personal precautions and protective equipment to prevent contamination of skin, eyes and clothing.
- Emergency procedures for evacuations, spills, leaks, and releases.
- Methods and materials used for contaminants.
- Cleanup procedures.

### Section 6: Accidental Release Measures

**Spill/Leak Procedures:**  
**Small & Large Spills**  
**Containment:** For all spills, pick up mechanically and place in suitable container for disposal. Do not release into sewers or waterways.  
**Cleanup:** After product recovery and removal, flush spill area with water to a sanitary sewer.  

- **Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7: Handling and Storage

This section provides guidance on the safe handling and conditions for safe storage of chemicals.

- Precautions for safe handling.
- Recommendations on safe storage.

### Section 7: Handling and Storage

**Handling Precautions:** Wear appropriate eye and glove protection to minimize personal exposure.  
**Storage Requirements:** Do not store with oxidizing materials. Keep containers sealed.  

- **Regulatory Requirements:** None established.

## Section 8: Exposure Controls/Personal Protection

This section describes the exposure limits, engineering controls and personal protective measures that can be used to minimize worker exposure.

- Appropriate engineering controls.
- OSHA permissible exposure limits.
- Recommendations for personal protective measures to prevent illness or injury from exposure.
- Any special requirements for PPE, clothing or respirators.

### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**  
**Ventilation:** In the event of product misting, provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.  
**Administrative Controls:**  
**Respiratory Protection:** If product misting occurs, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.  
**Protective Clothing/Equipment:** Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.  
**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.  
**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment after use.

- **Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. **KEEP AWAY FROM CHILDREN.**

## Section 9: Physical and Chemical Properties

This section identifies physical and chemical properties associated with the substance or mixture.

- Appearance
- Odor, odor threshold
- pH
- Melting point/freezing point, boiling point
- Flash point
- Evaporation rate
- Flammability
- Auto-ignition temperature
- density, vapor density
- Decomposition temperature

### Section 9: Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance and Odor:** Clear light amber with little or no odor.  
**Odor Threshold:** Not determined.  
**Vapor Pressure:** Not determined.  
**Vapor Density (Air=1):** Not determined.  
**Formula Weight:** N/A Density: 8.52 lbs./gal.  
**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.02  
**pH:** 4.0 -5.0 Typical  
**Water Solubility:** Completely soluble.  
**Other Solubilities:** Insoluble in hydrocarbons.  
**Boiling Point:** > 212°F.  
**Freezing Point:** < 30°F.  
**Viscosity:** Not determined.  
**Refractive Index:** Not Determined.  
**Surface Tension:** Not Determined.  
**% Volatile:** Not Determined.  
**Evaporation Rate:** Not Determined.

## Section 10: Stability and Reactivity

This section describes the reactivity of the chemical and the chemical stability information.

- Reactivity- description of the specific test data for the chemical.
- Chemical Stability- indication of whether the chemical is stable or unstable.
- Description of any stabilizers that may be needed to maintain chemical stability.
- any safety issues that may arise should the product change in physical appearance.
- Indication of the possibility of hazardous reactions.
- Any conditions that should be avoided.

### Section 10: Stability and Reactivity

**Stability:** CV-600 is stable at room temperature in closed containers under normal storage and handling conditions.  
**Polymerization:** Hazardous polymerization cannot occur.  
**Chemical Incompatibilities:** Do not store with oxidizers or acidic agents.  
**Conditions to Avoid:** N/A  
**Hazardous Decomposition Products:** Thermal oxidative decomposition of CV-600 can produce fumes of hydrogen chloride, and oxides of carbon, and nitrogen



Your Responsibility when it comes to SDS sheets:

- ✓ Know a list of chemicals you encounter in your immediate work area
- ✓ Know where to find SDS sheets at every job location and how to access them.
- ✓ Read the information included in the SDS sheet and follow all required instructions.  
This includes: PPE, disposal, cleanup and transporting.