Product ACS-CWO-119

Revision Date 06/04/2015

Revision 2

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name ACS-CWO-119
Identifier Uses Cooling Water Treatment.

Supplier
Advanced Chemical Service Inc.
3410 La Sierra Ave.#F271
Riverside, CA 92503
Tel: 800-319-9227

Contact Person 800-319-9227 / www.advancedchemicalservice.com

Emergency Telephone 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance Liquid
Color Clear, amber
Odor Mild.

Pictogram(s)

Signal Word Warning

Hazard Statements
H320 Causes eye irritation.
H315 Causes skin irritation.
H302 harmful if swallowed

Precautionary Statements
P280 Wear protective gloves/ protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P3101 + P312: If swallowed: Immediately call a POISON CENTER or doctor/physician
P330: Rinse Mouth

Contains
maleic acid
etidronic acid
phosphonic acid
potassium hydroxide
benzotriazole

GHS Classification
Physical and Chemical Hazards: Not classified
Human Health: Acute Tox 5 - H303, Eye Dam. 1 - H318, Skin. Sens 1 - H317, Skin Irrit.2 - H315
Environment: Not classified

OSHA Regulatory Status This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation No specific symptoms noted; inhalation is not believed to be a likely route of exposure.
Ingestion Harmful if swallowed.
Skin contact Skin irritation. May cause irritation, redness, and pain.
Eye contact May cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.

Routes of Exposure	No Information available.

SECTION 3: Composition/Information on Ingredients

Composition Comments	Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	General first aid, rest, warmth and fresh air.
Inhalation	If this product is inhaled, move the exposed person to fresh air promptly. Get Medical attention if symptoms persist.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If this product is ingested, drink small amounts of water and seek medical attention promptly.
Skin contact	If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists. If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes.
Eye contact	If the product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

General Information	
Inhalation	No specific symptoms noted; inhalation is not believed to be a likely route of exposure.
Ingestion	Harmful if swallowed.
Skin contact	Skin irritation. May cause irritation, redness, and pain.
Eye contact	May cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.

SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry chemical or carbon dioxide.
Hazardous combustion products	Combustion may lead to the release of oxides of carbon, possibly toxic phosphines.
Unusual Fire & Explosion Hazards	Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire.
Protective equipment for fire-fighters	Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

SECTION 6: Accidental Release Measures

Personal Precautions For personal protection, see section 8.

Environmental Precautions Keep out of drains, municipal sewers, open bodies of water and water course.

Spill Clean Up Methods Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. For small spills, dilute with large amounts of water and flush to sewer. For large spills, squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal. Dispose according to local, state or federal regulations at an approved chemical waste reprocessing facility. Flush spill area with large amounts of water.

SECTION 7: Handling and Storage

Handling Use proper personal protection when handling (refer to Section 8).Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

Usage Description Use only according to directions.

Storage Precautions The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.

Specific End Use(s) The identified uses are in section 1 of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection

Protective Equipment

Component	STD	TWA (8 hrs.)		STEL (15mins)		Notes
propan-2-ol isopropyl alcohol isopropanol	OSHA	400ppm	980mg/m3			

Ingredient Comments OSHA

Process Conditions Provide eyewash, quick drench.

Engineering Measures General mechanical ventilation is recommended for enclosed areas.

Respiratory Equipment Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

Hand Protection Use rubber or plastic gloves to minimize skin contact.

Eye Protection To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.

Hygiene Measures DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance Clear, amber liquid.

Color Clear, amber liquid.

Odor Mild.

Odor Threshold - Lower No Information available.

Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	7.37
Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Vapor pressure	23.8 mm Hg 0.0
Vapor Density (air=1)	No Information available.
Relative density	1.117 @ 68.0 °F
Bulk Density	No Information available.
Solubility	Completely soluble in water.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	No information available.
Oxidizing properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reactions may occur with strong alkalis oxidizing materials and amines.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerization	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Oxides of carbon, possibly toxic phosphines.
Conditions to Avoid	Avoid contact with strong alkalis oxidizing materials and amines.
Materials to Avoid	Keep away from Strong alkalis, oxidizing materials and amines.

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	>3687.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1297.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	No Information available.

Skin Corrosion/Irritation No Information available.

Respiratory Sensitization No Information available.
Skin Sensitization No Information available.
Reproductive Toxicity: No Information available.
Germ Cell Mutagenicity:
Genotoxicity - In Vitro
Genotoxicity - In Vivo

Carcinogenicity:
Carcinogenicity No Information available.
NTP - Carcinogenicity The product and its components are not listed.
OSHA - Carcinogenicity The product and its components are not listed.
IARC Carcinogenicity **propan-2-ol isopropyl alcohol isopropanol**: 3 IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Specific Target Organ Toxicity - Single Exposure:
STOT - Single Exposure No Information available.
Specific Target Organ Toxicity - Repeated Exposure:
STOT - Repeated Exposure No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
potassium hydroxide	284mg/kg Rat		
benzotriazole	675mg/kg Rat	>2000mg/kg Rabbit	
propan-2-ol isopropyl alcohol isopropanol	5480mg/kg Rat	13000mg/kg Rabbit	

SECTION 12: Ecological Information

Ecotoxicity No Information available.

Acute Toxicity - Fish LC50 96 Hours >250.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates LC50 48 Hours >1300.00 Daphnia magna
Acute Toxicity - Aquatic Plants No Information available.

Degradability No information available.

Bioaccumulative Potential

Mobility Completely soluble in water.

Results of PBT and vPvB Assessment The product does not contain any PBT or vPvB Substances.

Other Adverse Effects None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic	Acute Toxicity (Aquatic Plants)
benzotriazole	LC50 96 Hours 21.40mg/l Onchorhynchus mykiss (Rainbow Trout)		

SECTION 13: Disposal Considerations

Waste Management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Disposal Methods Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

SECTION 14: Transport Information

UN No. (DOT/TDG)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (ICAO)	Not applicable.
DOT Proper Shipping Name	Not applicable.
TDG Proper Shipping Name	Not applicable.
DOT Hazard Class	Not applicable.
DOT Hazard Label	Not applicable.
TDG Class	Not applicable.
TDG Label(s)	Not applicable.
IMDG Class	Not applicable.
ICAO Class	Not applicable.
Transport Labels	
DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.
EMS	Not applicable.
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: Regulatory Information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
The Following ingredients are listed maleic acid

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The Following ingredients are listed maleic acid
potassium hydroxide

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
The Following ingredients are listed maleic acid

SARA 313 Emission Reporting
The Following ingredients are listed maleic acid
propan-2-ol isopropyl alcohol isopropanol

CAA Accidental Release Prevention
The Following ingredients are listed maleic acid

OSHA Highly Hazardous Chemicals
The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)
The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-Ii)
The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed
- maleic acid
- potassium hydroxide
- benzotriazole
- propan-2-ol isopropyl alcohol isopropanol

Rhode Island "Right To Know" List

The Following ingredients are listed
- maleic acid
- potassium hydroxide
- propan-2-ol isopropyl alcohol isopropanol

Minnesota "Right To Know" List

The Following ingredients are listed
- potassium hydroxide
- propan-2-ol isopropyl alcohol isopropanol

New Jersey "Right To Know" List

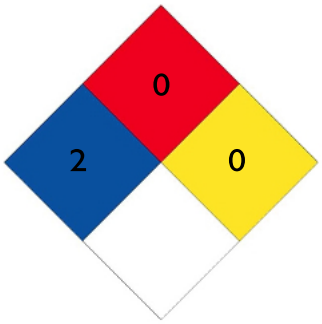
The Following ingredients are listed
- maleic acid
- phosphonic acid
- potassium hydroxide
- benzotriazole
- propan-2-ol isopropyl alcohol isopropanol

Pennsylvania "Right To Know" List

The Following ingredients are listed
- maleic acid
- phosphonic acid
- potassium hydroxide
- propan-2-ol isopropyl alcohol isopropanol

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	B

Revision Comments
Revision Date 06/04/2015
Revision 2

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