Product ACS-CWO-100M Revision Date 08/08/2016

Revision 3



### Safety Data Sheet

## **SECTION I: IDENTIFICATION**

Product Name ACS-CWO-100M 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

EmergencyTelephone 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053

INTERNATIONAL#: 1-352-323-3500

### **SECTION 2: HAZARDS IDENTIFICATION**

AppearancePale yellow liquid.ColorPale yellow liquid.OdorSlightly aromatic.

Pictogram(s)



Signal Word Warning

Hazard Statements H315 Causes skin irritation.

H320 Causes eye Irritation

H336 May cause drowsiness or dizziness.

**Precautionary Statements** P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**Contains** etidronic acid

phosphonic acid maleic acid

propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

**GHS** Classification

Physical and Chemical Hazards

Not classified

Human Health Environment Skin Irrit.2 - H315, Eye Dam. I - H318, Skin. Sens I - H317, STOT SE 3 - H336

Not classified

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

InhalationNo information is available. Inhalation is not believed to be a likely route of exposure.IngestionExposure to liquid product is not expected to result in significant adverse effects.SkincontactExposure to liquid product may be slightly irritating to skin. Symptoms of exposure may

include redness, swelling or pain.

Exposure to liquid product 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 and symptoms occur, move the exposed person to fresh air

promptly. Seek medical attention if symptoms persist.

Ingestion If this product is ingested, drink small amounts of water and seek medical attention

 $promptly.\ Do\ NOT\ induce\ vomiting\ unless\ directed\ to\ do\ so\ by\ medical\ personnel.\ Never\ give$ 

anything by mouth to an unconscious person.

**Skin contact** If this product contacts the skin, immediately flush the affected area with soap and water for

at least fifteen (15) minutes. 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.

Eye contact If this product contacts the eyes, immediately flush eyes with plenty of clean runningwater

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 No information available

InhalationNo information is available. Inhalation is not believed to be a likely route of exposure.IngestionExposure to liquid product is not expected to result in significant adverse effects.Skin contactExposure to liquid product may be slightly irritating to skin. Symptoms of exposure may

include redness, swelling or pain.

Exposure to liquid product 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 This product is irritating to eyes, skin and mucous membranes. This product has low oral

 $toxicity. \ Treat\ exposure\ symptomatically.$ 

#### **SECTION 5: FIREFIGHTING MEASURES**

Auto Ignition Temperature (°C)
Flammability Limit-Lower (%)
Flammability Limit-Upper (%)
Flash point

No Information available.
No Information available.
No Information available.

Extinguishing Media Use water, foam, dry chemical or carbon dioxide to extinguish fire.

Hazardous combustion products Unusual Fire & Explosion Hazards Special Fire Fighting Procedures

Combustion may lead to the release of oxides of carbon, possibly toxic phosphines. Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.

Use water to cool containers exposed to a fire.

Protective equipment for fire
Fire fighters should wear full protective equipment, and have self-contained breathing

fighters apparatus available.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions Use proper personal protection (refer to Section 8).

Environmental Precautions Run off from fire control or dilution water may cause pollution. 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, neutralize with baking soda and flush to sewer. For large spills, dike spill area and soak up material with sand or other absorbent. For small spills, neutralize with baking soda and flush to sewer. For large spills, dike spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state or federal regulations. Neutralize residue with lime or soda ash and flush spill area.

### **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. Do NOT reuse containers for other purposes.

**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 isopropylalcohol 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

AppearancePale yellow liquid.ColorPale yellow liquid.OdorSlightly aromatic.

Odor Threshold -Lower No Information available.

Odor Threshold - Upper No Information available.

pH-Value, Conc. Solution 2.11

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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.

FlammabilityLimit-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 9.07 @ 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 alkali and oxidizing materials.

Stability This product is stable at ambient temperatures and atmospheric pressures.

Hazardous Polymerization Hazardous polymerization is not expected to occur under normal temperatures and

oressures.

Hazardous Decomposition Products Hazardous decomposition will result in the release of oxides of carbon, possibly toxic

phosphines.

Conditions to Avoid Avoid contact with strong alkali and oxidizing materials.

Materials to Avoid Keep away from strong alkali and oxidizing materials.

# SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicological Information** No toxicological information for the overall finished product.

Acute Toxicity (Oral LD50) >5770.00mg/kg Rat
Acute Toxicity (Dermal LD50) >1647.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50) No Information available.

**Skin Corrosion/Irritation** No Information available.

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

Carcinogenicity:

Genotoxicity - In Vivo

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
benzotriazole	675mg/kg Rat	>2000mg/kg Rabbit	
propan-2-ol isopropyl alcohol isopropanol	5480mg/kg Rat	I 3000mg/kg Rabbit	
potassium hydroxide	284mg/kg Rat		

### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No Information available.

Acute Toxicity - Fish LC50 96 Hours >3900.00ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - LC50 48 Hours >3600.00ppm Daphnia magna

**Aquatic Invertebrates** 

Acute Toxicity - Aquatic Plants EC50 72 Hours > 2000.00ppm

**Degradability** No information available.

Bioaccumulative Potential No data available on bioaccumulation.

**Mobility** Completely soluble in water.

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

Other AdverseEffects None known.

Name	Acute Toxicity (Fish)	•	Acute Toxicity (Aquatic Plants)
benzotriazol 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.

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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 PackGroup** Not applicable.

IMDG Pack Group Not applicable.

Air Pack Group Not applicable.

EMS Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

### **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

### $\textbf{SARA S} ection 302 \, \textbf{Extremely Hazardous Substances Tier II Threshold Planning Quantities}$

The Following ingredients are listed maleic acid

### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

No

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 ReleasePrevention

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

benzotriazole

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propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

Rhode Island "Right To Know" List

The Following ingredients are listed maleic acid

propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

Minnesota "Right To Know" List

The Following ingredients are listed propan-2-ol isopropylal cohol isopropanol

potassium hydroxide

New Jersey "Right To Know" List

The Following ingredients are listed phosphonic acid

maleic acid benzotriazole

propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

Pennsylvania "Right To Know" List

The Following ingredients are listed

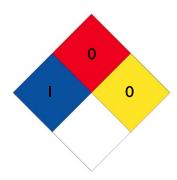
phosphonic acid maleic acid

propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

## **SECTION 16: OTHER INFORMATION**

# NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



## HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	В

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.