Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name

ACS-CWP-140

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

Clear, Pale Green Liquid.

Color

Clear, Pale Green Liquid.

Odor

Bland.

Pictogram(s)

Signal Word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage

Precautionary Statements

P280 Wear protective gloves/ protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
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

Contains

sulphuric acid
phosphonic acid
sodium 4(or 5)-methyl-1H-benzotriazolide

GHS Classification

Physical and Chemical Hazards: Not classified
Human Health: Skin Corr. 1A - H314
Environment: Not classified

OSHA Regulatory Status

This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation

Inhalation of mists may cause moderate to severe irritation to mucous membranes and respiratory tract. Symptoms of exposure may include nasal irritation, coughing, sore throat and shortness of breath. Avoid contact.

Ingestion

Exposure to liquid product may cause moderate to severe irritation and possible burns to inner linings of mouth, esophagus and gastrointestinal tract. Symptoms of exposure may include nausea, vomiting, dental erosion, abdominal pain, shock or collapse. The product may be fatal if ingested. Do NOT ingest.

Skin contact

Exposure to liquid product may cause moderate to severe irritation to skin, and possible burns. Symptoms of exposure may include redness, itching, swelling, blisters or pain. Effects of contact may be delayed. Avoid contact.

Eye contact

Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain.
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, seek medical attention immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Give the exposed person large amounts of milk, milk of magnesia, table oil or fresh eggs. Give water only when nothing else is available. Rinse mouth often. Never give anything by mouth to an unconscious person.

**Skin contact**
If this product contacts the skin, immediately flush the affected area with plenty of clean running 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 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**
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**Eye contact**
Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Effects of contact may be delayed. Avoid contact.

**Routes of Exposure**
No Information available.

Notes To The Physician
Provide general supportive measures and 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.

**Flashpoint**
No Information available.

**Extinguishing Media**
Use dry chemical, foam or carbon dioxide to extinguish fire. Do NOT use water on material.

**Hazardous combustion products**
Combustion may lead to the release of oxides of sulphur and hydrogen.

**Unusual Fire & Explosion Hazards**
Flammable hydrogen can form when the product contacts metals. Flammable hydrogen can form when the product contacts metals.

**Special Fire Fighting Procedures**
Use water to cool containers exposed to a fire.

**Protective equipment for firefighters**
Fire fighters should wear full protective equipment, including a NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
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. Do NOT flush into sewer or storm drain. Dike spill area and neutralize with alkaline material (lime, soda ash); then soak up with an inert material (sand, vermiculite, earth). Place into chemical waste container for disposal according to local, state or federal regulations at an approved chemical waste reprocessing facility. 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 protracted 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

<table>
<thead>
<tr>
<th>Component</th>
<th>STD</th>
<th>TWA (8 Hrs)</th>
<th>STEL (15mins)</th>
<th>Notes</th>
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<td>sulphuric acid</td>
<td>OSHA</td>
<td>1 mg/m3</td>
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</tbody>
</table>

Ingredient Comments
OSHA

Process Conditions
Provide eyewash, quick drench.

Engineering Measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

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
When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but we have positive experience with gloves made of Rubber.

Eye Protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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, Pale Green Liquid.
Color: Clear, Pale Green Liquid.

Odor: Bland.

Odor Threshold - Lower: No Information available.

Odor Threshold - Upper: No Information available.

pH-Value, Conc. Solution: 1.0

Melting point: 25.0 °F

Initial boiling point and boiling range: 212.0 °F

Flashpoint: 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: No Information available.

Vapor Density (air=1): No Information available.

Relative density: 1.40 @ 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/caustics, metals, hydroxylamine, ethanol, isopropanol, organics, nitrates, chlorates and water.

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: Hydrogen and oxides of sulphur.

Conditions to Avoid: Avoid contact with Strong alkalis/caustics, metals, hydroxylamine, ethanol, isopropanol, organics, nitrates, chlorates and water.

Materials to Avoid: Keep away from Strong alkalis/caustics, metals, hydroxylamine, ethanol, isopropanol, organics, nitrates, chlorates and water.
SECTION 11: Toxicological Information

Toxicological Information
No toxicological information for the overall finished product.

Acute Toxicity (Oral LD₅₀)
>1884.00mg/kg Rat

Acute Toxicity (Dermal LD₅₀)
>1105.00mg/kg Rabbit

Acute Toxicity (Inhalation LC₅₀)
>550.00mg/l (vapors) Rabbit

Skin Corrosion/Irritation
No Information available.

Respiratory Sensitization
No Information available.

Reproductive Toxicity:
No Information available.

Germ Cell Mutagenicity:
No Information available.

Skin Sensitization
No Information available.

Reproductive Toxicity:
No Information available.

Germ Cell Mutagenicity:
No Information available.

Carcinogenicity:

NTP - Carcinogenicity
sulphuric acid: Known human carcinogen.

OSHA - Carcinogenicity
The product and its components are not listed.

IARC Carcinogenicity
sulphuric acid: Not Listed.

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
--- | --- | --- | ---
sodium 4(or 5)-methyl-1H-benzotriazolide | 920mg/kg | | |

SECTION 12: Ecological Information

Ecotoxicity
No Information available.

Acute Toxicity - Fish
LC₅₀ 96 Hours >2100.00ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - Aquatic Invertebrates
LC₅₀ 48 Hours >2950.00ppm Daphnia magna

Acute Toxicity - Aquatic Plants
EC₅₀ 72 Hours >4150.00ppm

Degradability
No information available.

Bioaccumulative Potential
Completely soluble in water.

Mobility

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 Invertebrates) | Acute Toxicity (Aquatic)
--- | --- | --- | ---
sodium 4(or 5)-methyl-1H-benzotriazolide | LC₅₀ 96 Hours 191.20mg/l Lepomis macrochirus (Bluegill) | LC₅₀ 48 Hours 245.70mg/l Daphnia magna | |

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.

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even after container is emptied. Do NOT reuse empty containers. Dispose in accordance with all applicable federal, state and local laws and regulations.

SECTION 14: Transport Information

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<th>Code/Description</th>
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<tr>
<td>UN No. (DOT/TDG)</td>
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SECTION 15: Regulatory Information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
The Following ingredients are listed None Listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The Following ingredients are listed None Listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
The Following ingredients are listed None Listed.

SARA 313 Emission Reporting
The Following ingredients are listed None Listed.

CAA Accidental Release Prevention
The Following ingredients are listed sulphuric acid zinc sulphate

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 sulphuric acid zinc sulphate

Rhode Island "Right To Know" List
The Following ingredients are listed None Listed.

Minnesota "Right To Know" List
The Following ingredients are listed None Listed.

New Jersey "Right To Know" List
The Following ingredients are listed sulphuric acid zinc sulphate phosphonic acid

Pennsylvania "Right To Know" List
The Following ingredients are listed sulphuric acid zinc sulphate phosphonic acid
SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

<table>
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<th>Health</th>
<th>3</th>
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Revision Comments
Revision Date: 05/29/2015
Revision: 1

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