IDENTITY (As Used on Label & List):  S-400C  Boiler Water Treatment Compound

Section I – Manufacturer

CASCADE WATER SERVICES
113 BLOOMINGDALE ROAD.
HICKSVILLE, NY 11801
Date Prepared: 07/05/07
Preparer: J. Nemetz

IN A CHEMICAL EMERGENCY CONTACT: CHEMTREC
Emergency Telephone: (800) 424-9300

Section II – Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Component</th>
<th>OSHA PEL</th>
<th>ACGIH/TLV Recommend</th>
<th>Other Limits</th>
<th>% (Opt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfite</td>
<td>CAS# 7757-83-7</td>
<td>none</td>
<td>none</td>
<td>nuisance 10mg/m3 as dust</td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>CAS# 7757-82-6</td>
<td>not established</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Cobalt Sulfate</td>
<td>CAS# 10026-21-1</td>
<td>Not listed</td>
<td>&lt;1</td>
<td></td>
</tr>
</tbody>
</table>

Section III – Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>- unknown</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>31 grams to 100 grams water</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>White to yellow granular powder with slight odor. Pink or red particles may be visible.</td>
</tr>
</tbody>
</table>

Section IV – Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Hazard Data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>- not applicable</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>- not applicable</td>
</tr>
<tr>
<td>LEL</td>
<td>none</td>
</tr>
<tr>
<td>UEL</td>
<td>none</td>
</tr>
</tbody>
</table>

Extinguishing Media –
CO₂, foam, dry chemical, water spray or fog.
Note: Water or foam may cause frothing if product is heated above 200 degrees F.

Special Fire Fighting Procedures –
If excess fumes or smoke are encountered, wear complete fire service protective equipment,
including full-face MSHA/NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards –
None known.

Section V – Reactivity Data

Stability – Stable: X Conditions to Avoid – very high temperatures
Unstable:
Incompatibility (Materials to Avoid) –
Avoid strong oxidizers and acids.
Hazardous Decomposition of Byproducts –
Decomposes at 1652 F; May yield sulfur dioxide gas and hazardous sulfide residue.
Strong oxidizers cause vigorous exothermic reaction and acids may release sulfur dioxide gas.
Hazardous Polymerization –
May Occur: Conditions to Avoid –
Will Not Occur: X none

Section VI – Health Hazard Data

Routes of Entry – (Inhalation?) (Skin?) (Ingestion?)
Skin, Eye, Inhalation, and Ingestion
Health Hazards (Acute and Chronic –
May cause slight irritation to skin, eyes, and mucous membranes.
Those sensitive to sulfate may have an allergic reaction. Symptoms include nausea, diarrhea, itching, swelling, hives, acute asthma attack, loss of consciousness, and/or anaphylactic shock.
Oral Toxicity: Peroral Rat LD50 = 5.66 g/kg
Dermal Toxicity: Skin Rabbit LD50 = > 16.0 g/kg
Carcinogenicity – NTP? IARC Monographs? OSHA Regulated?
Not carcinogenic
Signs and Symptoms of Exposure –
Itching or burning of skin, eyes, and mucous membranes.
Medical Conditions Generally Aggravated by Exposure –
Allergic reaction to sulfite may occur. Seek immediate medical attention.
Emergency and First Aid Procedures –
If above symptoms of allergy are present, get IMMEDIATE medical aid.
Eyes – immediately flush with lots of water for at least 15 minutes holding lids apart to ensure flushing of entire surface. Seek medical attention.
Skin – Immediately wash with lots of water, which may be followed by rinsing with 3% vinegar solution. Remove contaminated clothes & footwear and wash before reuse.
Ingestion – If large quantities are ingested, give 1 – 2 glasses of milk or water and induce vomiting. Get immediate medical aid. Never give anything by mouth to an unconscious person.
Inhalation – Remove to fresh air. If breathing has stopped, apply artificial respiration or O2. Seek immediate medical aid.

Section VII – Precautions for Safe Handling and Use
Steps to be Taken in Case Material is Released or Spilled –
  Mechanical clean-up for use or disposal. Wear suitable protective equipment.
Waste Disposal Method –
  Incinerate or landfill. Dispose of in accordance with local, state, and federal regulations.
Precautions to be Taken in Handling and Storing –
  Store in cool dry place. Make sure all protective apparatus is worn when handling. Use
  with adequate ventilation only! Dust mask should be worn when mixing.
Other Precautions –
  Avoid contamination by water or other products. Do not get in eyes, on clothing, or on skin.
  Keep away from heat and open flame. Keep container closed. Use with adequate ventilation.
  Wash thoroughly any equipment after handling.

Section VIII – Control Measures

Respiratory Protection (Specify Type) –
  Mask with dust filter
Ventilation –
  Local Exhaust: Necessary to reduce dust concentration
  Mechanical (General):
    Special: Do not wear contact lenses when handling.
    Other:

Protective Gloves: Work gloves
Eye Protection: Face shield or goggles
Other Protective Clothing or Equipment –
  Clothing must protect areas of the body that risk contact. Have an Eyewash and Safety
  Shower on hand.
Work/Hygienic Practices –
  Wash thoroughly after handling.

Additional Comments –

If highly allergic and large quantities have been ingested AND VICTIM IS CONSCIOUS,
vomiting may be induced by sticking finger down throat. UNDER NORMAL
CIRCUMSTANCES, WHEN ALLERGY DOES NOT EXIST, DO NOT INDUCE VOMITING.
GIVE WATER WHEN CONSCIOUS. IN ALL CASES SEEK IMMEDIATE MEDICAL HELP.