

CWT 68

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** CWT 68  
**Common Name:** SULFURIC ACID 93%  
**SDS Number:** 0663  
**Product Code:** CT0050  
**Revision Date:** 1/28/2015  
**Version:** 1  
**Internal ID:** 302C + Face Shield  
**Product Use:** Scale Inhibitor  
**Supplier Details:** U.S. Water Services  
12270 43rd St. NE  
St. Michael, MN 55376

**Contact:** Non-emergency #: 866-663-7632  
**Email:** SDS@uswaterservices.com  
**Web:** www.uswaterservices.com

**EMERGENCY RESPONSE: (ChemTel)**  
US & Canada: 800-255-3924  
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**2 HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Skin corrosion/irritation, 1 A  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 3 Inhalation  
Physical, Corrosive to Metals, 1  
Health, Specific target organ toxicity - Single exposure, 3

**GHS Label elements, including precautionary statements****GHS Signal Word: DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H314 - Causes severe skin burns and eye damage  
H302 - Harmful if swallowed  
H331 - Toxic if inhaled  
H290 - May be corrosive to metals  
H335 - May cause respiratory irritation

**GHS Precautionary Statements:**

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P281 - Use personal protective equipment as required.  
P302+352 - IF ON SKIN: Wash with soap and water.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P313 - Get medical advice/attention.  
P233 - Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to a proper waste facility.

Hazards not otherwise classified (HNOC) or not covered by GHS

**3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
7664-93-9	93%	Sulfuric acid

**4 FIRST AID MEASURES**

**Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. If symptoms persist, seek medical attention.

**Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops.

**Eye Contact:** Flush eyes with plenty of running water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:** If swallowed, seek immediate medical attention. Never give anything by mouth to an unconscious person.

**Most important symptoms & effects (acute & delayed):** No data available

**Indication of need for immediate medical attention:** No data available

**Special treatment needs:** No data available

**5 FIRE FIGHTING MEASURES**

**Flash Point:** Nonflammable  
**Flash Point Method:** Pensky Martens Closed Cup  
**Burning Rate:** No data available  
**Autoignition Temp:** Does not burn  
**LEL:** No data available  
**UEL:** No data available

**Extinguishing Media:**

**Suitable:** Material is not combustible. Use extinguishing media suitable for surrounding fire.

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**Unsuitable:** No information available

**Hazardous combustion products:** When heated to decomposition, highly toxic fumes of sulfur oxides are evolved. May react certain metals to produce flammable hydrogen gas. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, carbides, etc.

**Unusual Fire or Explosion Hazards:** Product may react with some metals (aluminum, zinc, tin, etc.) to release flammable hydrogen gas. Contact with combustible material may cause fire. Sulfur oxide gases emitted at high temperatures.

**Special protective equipment/precautions:** Wear self-contained breathing apparatus. Avoid getting water into containers. Product generates heat upon addition of water, with possible spattering.

**6****ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective equipment, emergency procedures:** Avoid contact with the material. See section 8 of SDS for PPE recommendations

**Environmental Precautions:** Keep runoff from entering drains or waterways

**Spill/Leak procedures:** Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

**Regulatory Requirements:** Dispose of recovered material in accordance with all applicable state and federal regulations.

**7****HANDLING AND STORAGE**

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

**Storage Requirements:** Keep away from children. Store in closed containers away from temperature extremes and incompatible materials, heat and sources of ignition. Store in properly labeled containers in accordance with all local, state and federal guidelines.

**8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Provide local exhaust ventilation as needed to control misting.

**Personal Protective Equipment:** HMIS PP, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

**Exposure Limits: Sulfuric Acid**  
OSHA (TWA)/PEL): 1 mg/m<sup>3</sup>

**CWT 68**ACGIH (TWA/TLV): 1 mg/m<sup>3</sup>**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, colorless	<b>Odor:</b>	Mild
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete in water
<b>Odor Threshold:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	Not determined
<b>Spec Grav./Density:</b>	15.3 Lb/Gal	<b>Flash Point:</b>	None
<b>Viscosity:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>Boiling Point:</b>	Not determined	<b>Auto-Ignition Temp:</b>	None
<b>Partition Coefficient:</b>	Not determined	<b>UFL/LFL:</b>	Not determined
<b>Vapor Pressure:</b>	8 mmHg		
<b>pH:</b>	<0.5		
<b>Evap. Rate:</b>	<1.0		
<b>Decomp Temp:</b>	Not determined		

**10 STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Product is stable under normal storage and use conditions.
<b>Conditions to Avoid:</b>	Avoid open flames or sparks. Contact with water may cause violent reaction with evolution of heat. To dilute, add product slowly to lukewarm water; not water to product.
<b>Materials to Avoid:</b>	Metals such as aluminum, zinc, tin, etc.. Avoid strong oxidizing agents, reducing agents, cyanides, sulfides, carbides, and organic materials. Concentrated acid is a strong oxidizing agent. May cause ignition on contact with organic materials and chemicals such as nitrates, carbides, and chlorates.
<b>Hazardous Decomposition:</b>	When heated to decomposition, highly toxic fumes of sulfur oxides are evolved. May react with certain metals to produce flammable hydrogen gas. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, carbides, etc..
<b>Hazardous Polymerization:</b>	Will not occur.

**11 TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	No data available
<b>Skin Corrosion/Irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Specific target organ toxicity (single exposure):</b>	No data available
<b>Specific target organ toxicity (repeated exposure):</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Carcinogenicity:</b>	No carcinogenic effects are known for the components of this product
<b>Germ Cell Mutagenicity:</b>	No mutagenic effects are known for the components of this product
<b>Teratogenicity:</b>	No studies have been performed

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**12 ECOLOGICAL INFORMATION****Aquatic Toxicity**

Daphnia Magna	EC <sub>50</sub> 24 hrs:	29 mg/l
Mosquito fish	LC <sub>50</sub> 96 hrs :	42mg/l
Bluegill sunfish:	LC <sub>50</sub> 48 hr:	16 mg/L

**Elimination** (persistence & degradability): No data available**Bioaccumulative potential:** No data available**Mobility in soil:** No data available**Other adverse effects:** No data available**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

**14 TRANSPORT INFORMATION**

UN1830, Sulfuric acid with more than 51 percent acid, 8, PGII, (Sulfuric Acid)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

**15 REGULATORY INFORMATION****Component (CAS#) [%] - CODES**

\*Sulfuric acid (7664939 93%) CERCLA (RQ 1000lbs), CSWHS, EHS302 (TPQ 1000lbs), EPCRAWPC, MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

**Regulatory CODE Descriptions**

RQ = Reportable Quantity  
CERCLA = Superfund clean up substance  
CSWHS = Clean Water Act Hazardous substances  
EHS302 = Extremely Hazardous Substance  
EPCRAWPC = EPCRA Water Priority Chemicals  
MASS = MA Massachusetts Hazardous Substances List  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHA = OSHA Workplace Air Contaminants

**CWT 68****PA = PA Right-To-Know List of Hazardous Substances****SARA313 = SARA 313 Title III Toxic Chemicals****TSCA = Toxic Substances Control Act****TXAIR = TX Air Contaminants with Health Effects Screening Level****TSCA:** All components of this product are listed (or are not required to be listed) in the TSCA inventory**EPA / CERCLA / SARA TITLE III:****Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.**SARA 312:** Acute**RCRA:** Corrosive, D002**16****OTHER INFORMATION****HMIS III:** Health = 3, Fire = 1, Physical Hazard = 2**HMIS PPE:** C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	2
PERSONAL PROTECTION	C

**Author:** U.S. Water Services**Revision Notes:** Updated to GHS format**Disclaimer:**

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