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**ROC 50 KBT**

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**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** ROC 50 KBT  
**Common Name:** Mixture  
**SDS Number:** 0189  
**Product Code:** CL0061  
**Revision Date:** 3/18/2015  
**Version:** 2  
**Internal ID:** 200C  
**Product Use:** Water Treatment  
**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

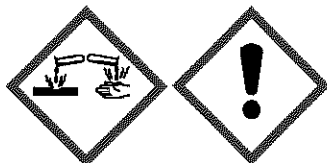
**EMERGENCY RESPONSE: (ChemTel)**  
**US & Canada: 800-255-3924**  
**International: +01-813-248-0585**

**2 HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Specific target organ toxicity - Single exposure, 3  
Health, Acute toxicity, 4 Oral  
Health, Skin corrosion/irritation, 1 B

**GHS Label elements, including precautionary statements**

**GHS Signal Word: DANGER**

**GHS Hazard Pictograms:****GHS Hazard Statements:**

H335 - May cause respiratory irritation  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage

**GHS Precautionary Statements:**

P102 - Keep out of reach of children.  
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.

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P315 - Get immediate medical advice/attention.  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P340 - Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P313 - Get medical advice/attention.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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)

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

Cas#	%	Chemical Name
5329-14-6	9-12%	Sulfamic acid
79-14-1	9-12%	Acetic acid, hydroxy-
77-92-9	9-12%	1,2,3-Propanetricarboxylic acid, 2-hydroxy-
119345-04-9	4-6%	Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts

## 4 FIRST AID MEASURES

**Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. Seek medical attention.

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

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

**Ingestion:** If conscious, give plenty of water. If discomfort or other symptoms develop, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

**Indication of need for immediate medical attention:** None

**Special treatment needs:** None

## 5 FIRE FIGHTING MEASURES

**Flammability:** Not flammable

**Flash Point:** Not applicable

**Flash Point Method:** Pensky Martens Closed cup

**Burning Rate:** No data available

**Autoignition Temp:** No data available

**LEL:** Not applicable

**UEL:** Not applicable

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**Extinguishing Media:**

**Suitable:** Use extinguishing media suitable for surrounding fire.

**Unsuitable:** No information available

**Hazardous combustion products:** Thermal decomposition, as under fire conditions, may produce carbon dioxide, carbon monoxide, oxides of nitrogen, and other potentially hazardous compounds

**Unusual Fire or Explosion Hazards:** None known

**Special protective equipment/precautions:** Wear self-contained breathing apparatus

**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. Avoid contact with aluminum. Protect from freezing.  
Store in properly labeled containers in accordance with all local, state and federal guidelines.

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**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 for dusts and mists. 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:**  
OSHA (TWA)/PEL): Not Established  
ACGIH (TWA/TLV): Not Established

**9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, colorless to pale yellow	<b>Odor:</b>	Odorless
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete in water
<b>Odor Threshold:</b>	Not determined	<b>Percent Volatile:</b>	60-70% (water)
<b>Spec Grav./Density:</b>	9.61 lb/gal	<b>Freezing/Melting Pt.:</b>	Similar to water
<b>Viscosity:</b>	Not determined	<b>Flash Point:</b>	None
<b>Boiling Point:</b>	Similar to water	<b>Vapor Density:</b>	Similar to water
<b>Partition Coefficient:</b>	Not determined	<b>VOC:</b>	0% (w/w)
<b>Vapor Pressure:</b>	Similar to water	<b>Auto-Ignition Temp:</b>	Not determined
<b>pH:</b>	<2	<b>UFL/LFL:</b>	Not determined
<b>Evap. Rate:</b>	Not determined		
<b>Decomp Temp:</b>	Not determined		

**10****STABILITY AND REACTIVITY**

**Stability:** Product is stable under normal storage and use conditions.

**Conditions to Avoid:** Avoid temperature extremes. Protect from freezing. Keep container closed when not in use.

**Materials to Avoid:** Strong oxidizing agents, strong bases.

**Hazardous Decomposition:** None under normal storage conditions. See section 5 of SDS.

**Hazardous Polymerization:** Will not occur.

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**11 TOXICOLOGICAL INFORMATION****Acute Toxicity:**Oral LD<sub>50</sub> (rat) > 3000 mg/kg (est.)**Skin Corrosion/Irritation:** No data available**Serious eye damage/irritation:** No data available**Respiratory or skin sensitization:** No data available**Specific target organ toxicity (single exposure):** No data available**Specific target organ toxicity (repeated exposure):** No data available**Aspiration hazard:** No data available**Carcinogenicity:** No carcinogenic effects are known for the components of this product**Germ Cell Mutagenicity:** No mutagenic effects are known for the components of this product**Teratogenicity:** No teratogenic effects are known for the components of this product**12 ECOLOGICAL INFORMATION****Aquatic Toxicity***Ceriodaphnia dubia*: 48h LC<sub>50</sub> 110.2 mg/L NOEC 70 mg/L LOEC 140 mg/LFathead Minnow: 96h LC<sub>50</sub> 15.9 mg/L NOEC 12.5 mg/L LOEC 25 mg/LRainbow Trout: 96h LC<sub>50</sub> 26.4 mg/L NOEC 20 mg/L LOEC 40 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**

UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, PGIII, (Sulfamic Acid, Hydroxyacetic Acid, Citric Acid)

DOT Transportation data (49 CFR 172.101)

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**REGULATORY INFORMATION**

**Component (CAS#) [%] - CODES**

Sulfamic acid (5329-14-6) [9-12%] TSCA

Acetic acid, hydroxy- (79-14-1) [9-12%] TSCA

1,2,3-Propanetricarboxylic acid, 2-hydroxy- (77-92-9) [9-12%] TSCA

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9) [4-6%] TSCA

**Regulatory CODE Descriptions**

**TSCA = Toxic Substances Control Act**

**TSCA:** All components of this product are listed (or are not required to be listed) in the TSCA inventory

**EPA / CERCLA / SARA TITLE III:**

**CERCLA List:** This product does not contain any CERCLA listed hazardous substances.

**Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

**Extremely Hazardous Substance (SARA 302/304):** This product does not contain any extremely hazardous substances subject to emergency planning requirements.

**SARA 312:** Acute

**RCRA:** Corrosive, D002

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**OTHER INFORMATION**

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

**Author:** U.S. Water Services

**Revision Notes:** Updated to GHS format

**Disclaimer:**

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