

# SAFETY DATA SHEET

Date issued : 12/07/2022

SDS number : Regal Copper &amp; Scale Out

## Regal Pool Care System Copper & Scale Out

### 1. Identification

**Product identifier:** Regal Pool Care System Copper & Scale Out  
**Relevant identified uses:** Metal and Scale Control for Swimming Pools

**Distributor**

Alliance Trading, Inc.  
 109 North Park Blvd., 4th Floor  
 Covington, LA 70433

**Emergency telephone number (24 hour)**

Chem-Tel 24-Hour Emergency # (800) 255-3924

### 2. Hazard identification

**Classification of the substance or mixture**

**Health hazards:**

Skin Corrosion, Category 1C  
 Eye Damage, Category 1  
 Aquatic, Acute 2

**Label elements**



Corrosion

**Signal word:** WARNING

**Hazard statement(s)**

H314: Causes severe skin burns and eye damage.  
 H401: Toxic to aquatic life.

**Precautionary statement(s)**

**Prevention:**

7222XWJP: Do not breathe dust  
 4304ZF6P: Wash exposed skin thoroughly after handling.  
 P273: Avoid release to the environment.  
 7052PC2H: Wear protective gloves, eye protection, protective clothing.  
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 35945P70: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and each to do. Continue rinsing  
 P310: Immediately call a POISON CENTER/doctor/...  
 P363: Wash contaminated clothing before reuse.  
 P405: Store locked up.  
 789508DQ: Dispose of contents/container to comply with local, state and federal regulations.

**Emergency overview**

**Immediate concerns:** Corrosive. Harmful or fatal if swallowed. Corrosive to skin and respiratory tract. Can cause permanent damage to eyes. Fire may produce irritating corrosive and/or toxic vapors. Avoid contact with eyes and skin. Avoid breathing dusts. Use with adequate ventilation.

**Potential health effects**

**Eye:** Exposure may cause redness, pain, and blurred vision. Prolonged contact may cause corneal injury.

**Skin:** Skin contact can cause irritation of the skin with pain, itching and redness. Overexposure may cause chemical burns.

**Ingestion:** Harmful if swallowed. May cause gastric distress, vomiting and diarrhea.

**Inhalation:** May irritate the nose, throat and respiratory tract. Symptoms can include sore throat, coughing and shortness of breath. In severe cases, ulceration and perforation of the nasal septum and upper respiratory tract can occur. In severe cases, pulmonary edema may occur

# SAFETY DATA SHEET

Date issued : 12/07/2022

SDS number : Regal Copper &amp; Scale Out

## Regal Pool Care System Copper & Scale Out

which may lead to death.

**Target organ statement:** Repeated or prolonged exposure to the substance can produce target organ damage. Repeated exposure of a low level of dust to the eyes can produce eye damage. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

### 3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Sulfamic Acid	100	5329-14-6

### 4. First-aid measures

**Eye:** Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. Call a physician immediately.

**Skin:** Immediately wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**Ingestion:** Do not induce vomiting. Have victim rinse mouth thoroughly with water, if conscious. Never give anything by mouth to an unconscious person or one who is having convulsions. Contact a physician or poison control center immediately.

**Inhalation:** Remove victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled substance; but induce artificial respiration with the aid of a mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

**Indication of immediate medical attention and special treatment needed, if necessary:** Provide general supportive measures and treat symptomatically.

### 5. Fire-fighting measures

**General hazard:** As a solid, sulfamic acid is not combustible, however as a solution, it is corrosive and presents a severe inhalation and contact hazard to firefighters. Aqueous solutions of sulfamic acid are highly corrosive, which reacts violently with bases. When involved in a fire, this material may decompose and produce corrosive and/or toxic gases (i.e. ammonia and sulfuric acids).

**Suitable extinguishing media:** Water fog, carbon dioxide, foam, dry chemical powder.

**Fire fighting procedures:** Use water to cool containers exposed to fire.

**Fire fighting equipment:** Firefighters should wear self-contained breathing apparatus (SCBA) and turn-out gear.

**Hazardous decomposition products:** Nitrogen oxides and carbon oxides. <br>

The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire, other hazardous combustion products may be generated.

**Comments:** Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

### 6. Accidental release measures

**Small spill:** Stop flow of material, if without risk. Contain discharged material. If sweeping of a contaminated area is necessary, use a dust suppressant that does not react with product.

Avoid all skin contact. Wear gloves, goggles, faceshield and body protection. Sweep up or vacuum spill. Decontaminate area. Neutralize with hydrated lime (calcium oxides), soda ash or sodium bicarbonate. Test with litmus paper. Place spill in suitable container. Thoroughly wash area after clean-up. Prevent contamination of storm drains, sewers, soil, or groundwater.

**Large spill:** Corrosive solid. Call fire department. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into water, sewers, basements or confined areas. Neutralize residue with a dilute solution of sodium carbonate.

### 7. Handling and storage

**Precautions for safe handling:** Do not breathe dust. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. Empty containers may contain particulates; therefore empty containers should be handled with care. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers. Limit quantity of material stored.

**Conditions for safe storage:** Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight,

# SAFETY DATA SHEET

Date issued : 12/07/2022

SDS number : Regal Copper &amp; Scale Out

## Regal Pool Care System Copper & Scale Out

sources of intense heat, or where freezing is possible. Store containers away from incompatible chemicals. Storage areas should be made of corrosion and fire resistant materials. Floors should be sealed to prevent absorption of this material.

### 8. Exposure controls/personal protection

**Appropriate engineering controls:** Local exhaust.

**Individual protection measures, such as personal protective equipment**

**Eye / face protection:** Safety glasses with side shields or splash proof goggles. Face contact should be prevented with face shield.

**Skin protection - hand protection:** Impervious gloves.

**Respiratory protection:** An approved/certified dust/vapor respirator. An organic vapor/acid gas cartridge with dust/mist prefiller may be used.

**Skin protection - other:** Impervious clothing to prevent skin contact.

### 9. Physical and chemical properties

**Physical state:** Solid

**Appearance:** White crystalline.

**pH:** 1.18 (1% solution.)

**Melting point:** 205°C (205°F)

**Flash point:** Not Flammable

**Lower explosion limit / flammability limit:** 0

**Upper explosion limit / flammability limit:** 0

**Vapor pressure:** 3.21 x 10<sup>-16</sup> mm of Hg at 25 deg C

**Relative vapor density:** Not Available

**Relative density:** 2.125 in toluene at 25 deg C.

**Solubility:** 17.5%

at 20°C

**Decomposition temperature:** 209°C

### 10. Stability and reactivity

**Chemical stability:** Stable when dry, but slowly hydrolyzes in solution. Sulfamic acid begins to decompose at 209 deg C (408 deg F). At room temperature, dilute solutions of sulfamic acid is stable for many months. At higher temperature and especially in stronger solutions, hydrolysis of the acid and its ammonium salt occurs, forming ammonium hydrogen sulfate and ammonium sulfate. This reaction occurs much more rapidly as the pH lowers and concentration of the acid increases.

**Conditions to avoid:** Avoid dispersion of sulfamic acid particulates into the air and contact with heat. Avoid the use of non-vented containers if concentrated solutions of the acid are made and heated, as a runaway hydrolysis reaction will occur, generating sufficient steam in the container to cause an explosion.

**Hazardous decomposition products:** Nitrogen oxides, carbon oxides, sulfur oxides and ammonia gas. Concentrated solutions when heated will release sulfur dioxide and sulfur trioxide.

**Incompatible materials:** Incompatible with chlorine and chlorine compounds, cyanides, sulfides, nitrates, carbonates, metal oxides, strong oxidizing agents and strong bases. Chlorination of sulfamic acid with acidic ammonium chloride solutions gives the powerfully explosive oil, nitrogen trichloride. Heating mixtures of barium, potassium or sodium amidosulfates or sulfamic acid, with sodium or potassium nitrates or nitrates, leads to reactions which may be explosive. Mixing sulfuric acid with fuming nitric acid results in violent release of nitrous oxide.

### 11. Toxicological information

**Acute toxicity**

**Acute oral toxicity LD<sub>50</sub>:** 1312 mg/kg (mice)

### 12. Ecological information

**Aquatic toxicity, both acute and chronic**

# SAFETY DATA SHEET

Date issued : 12/07/2022  
SDS number : Regal Copper & Scale Out

## Regal Pool Care System Copper & Scale Out

**96-hour LC<sub>50</sub>:** 58-84 (fathead minnow) fresh water, 22 deg C

**Other adverse effects:** Harmful to aquatic life in very low concentrations. Sulfamic acid is toxic to fish and marine organisms when applied to streams, rivers, ponds, or lakes.

### 13. Disposal considerations

**Disposal methods:** Dispose in accordance with all applicable regulations.

**RCRA/EPA waste information:** If this product becomes a waste, it could meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste. Consult local, state, federal regulations for specific requirements.

### 14. Transport information

#### USA Department of Transport Regulations (DOT)

**UN proper shipping name:** Sulfamic Acid

**UN number:** UN 2967

**Transport hazard class(es):** 8

**Packing group, if applicable:** III

**NAERG:** 171

**DOT other shipping information:** Ground Shipping DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 11 lbs and outer packaging does not exceed 66 lbs.

### 15. Regulatory information

#### UNITED STATES

##### SARA Section 311/312 Hazard Categories

##### Regulations

**State regulations:** New Jersey: Yes

**California Proposition 65:** There are no chemicals present known to the State of California to cause cancer.

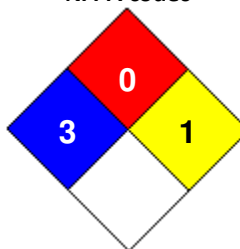
### 16. Other information

**Date Prepared:** 12/07/2022

#### HMIS rating

Health	□	3
Flammability	□	0
Physical hazard	□	1
Personal protection	□	

#### NFPA codes



**Manufacturer disclaimer:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).