

#### MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product Name Spa Chlorine Concentrate Granular

CAS # Mixture

**Product use** Controls bacteria and algae in spas.

Manufacturer

Natural Chemistry, Inc.
40 Richards Ave.
Norwalk, CT 06854 US

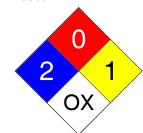
Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





### 2. Hazards Identification

Emergency overview DANGER

Oxidizing material.

EYE AND SKIN IRRITANT. Contains toxic material.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause chemical burns. May cause blindness.

Skin May cause severe irritation or chemical burns.

**Inhalation** May cause respiratory tract irritation or chemical burns.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Target organs** Eyes. Skin. Respiratory system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium dichloroisocyanurate dihydrate	51580-86-0	90 - 100

### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Brush away excess of dry material. Immediately flush with cool water for 15 minutes.

Obtain medical attention if irritation persists.

**Inhalation** Move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Water. Fog. Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Container may explode in heat of fire.

trichloride. Chlorine gas. Toxic fumes.

Protective equipment for

Firefighters should wear full protective clothing including self contained breathing apparatus.

firefighters **Hazardous combustion products** 

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Nitrogen

**Explosion data** 

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

### 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

# 7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storage

Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

## 8. Exposure Controls / Personal Protection

**Exposure limits** 

Ingredient(s) **Exposure Limits** 

Sodium dichloroisocyanurate dihydrate

**ACGIH-TLV** Not established **OSHA-PEL** 

Not established

**Engineering controls** 

Personal protective equipment

Use only under good ventilation conditions or with respiratory protection.

Eye / face protection

Chemical splash goggles.

Hand protection

Neoprene gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical & Chemical Properties

AppearanceGranulesColorWhiteFormSolid

Odor Mild chlorine
Odor threshold Not available
Physical state Solid

pH Not available
Freezing point Not available
Boiling point Not available
Flash point Not available
Evaporation rate Not available
Flammability limits in air, lower, % Not applicable

by volume

Flammability limits in air, upper, %

by volume

Not applicable

Vapor pressure
Not available
Vapor density
Not available
Specific gravity
Not available
Octanol/water coefficient
Auto-ignition temperature
Not available

# 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Heat, flames and sparks. Do not mix with other chemicals.

Incompatible materials Caustics. Acids. Oxidizers. Reducing agents. Organic materials. Combustible materials. Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Nitrogen

**Hazardous decomposition products** May include and are not limited to: Oxides of carb trichloride. Chlorine gas. Toxic fumes.

Possibility of hazardous reactions Hazardous polymerization does not occur.

## 11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Sodium dichloroisocyanurate dihydrate > 1637.5 Mg/m3/4H rat

Component analysis - Oral LD50

Ingredient(s) LD50

Sodium dichloroisocyanurate dihydrate 620 mg/kg rat

Effects of acute exposure

Eye May cause chemical burns. May cause blindness.

Skin May cause severe irritation or chemical burns.

**Inhalation** May cause respiratory tract irritation or chemical burns.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

SensitizationNon-hazardous by OSHA criteria.Chronic effectsNon-hazardous by OSHA criteria.CarcinogenicityNon-hazardous by OSHA criteria.MutagenicityNon-hazardous by OSHA criteria.Reproductive effectsNon-hazardous by OSHA criteria.TeratogenicityNon-hazardous by OSHA criteria.

# 12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

96.00 Hour LC50 Rainbow Trout 0.22 mg/l

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Not available

Not available

Mobility in environmental media Not available
Chemical fate information Not available

## 13. Disposal Considerations

Waste codes Not available

**Disposal instructions** Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Not available

Waste from residues / unused

products

Contaminated packaging Not available

# 14. Transport Information

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

## 15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

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State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Sodium dichloroisocyanurate 51580-86-0 Present

dihvdrate

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium dichloroisocyanurate 51580-86-0 Present

dihydrate

U.S. - Rhode Island - Hazardous Substance List

Sodium dichloroisocyanurate 51580-86-0 Flammable

dihydrate

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

**Disclaimer** Information contained herein was obtained from sources considered technically accurate

and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

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