

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier

Other means of identification

Recommended use

Recommended restrictions

Manufacturer

Spa Chlorine Concentrate Granular

Not available

Controls bacteria and algae in spas.

None known. Natural Chemistry L.P.

40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Oxidizing solids Category 2 Physical hazards Category 4 **Health hazards** Acute toxicity, oral Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word

Hazard statement May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye

irritation. May cause respiratory irritation.

Precautionary statement

Prevention

Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye

protection/face protection. Wash thoroughly after handling.

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with Response

plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/Information on Ingredients

Mixture

Chemical name Common name and synonyms CAS number % Sodium dichloroisocyanurate 51580-86-0 100 dihydrate

4. First Aid Measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

#18539 Page: 1 of 7 Issue date 26-September-2014 Skin contact

Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. Get

Eye contact

medical attention if irritation develops and persists. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

Ingestion

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Most important symptoms/effects, acute and IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

delayed

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

treatment needed **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear rubber gloves and chemical splash goggles.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Treat for surrounding material.

DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). An explosive compound can be formed.

Specific hazards arising from the chemical

May intensify fire; oxidizer.

cause redness and pain.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

General fire hazards

May intensify fire; oxidizer.

Hazardous combustion

May include and are not limited to: Oxides of nitrogen. Chlorine gas. Nitrogen trichloride. Hydrogen chloride. Toxic fumes.

products

Explosion data Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Keep away from heat. Take any precaution to avoid mixing with combustibles. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Do not store near combustible materials.

8. Exposure Controls/Personal Protection

Occupational exposure limits **Biological limit values**

No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

#18539 Page: 2 of 7 Issue date 26-September-2014 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Chemical splash goggles. Eye/face protection

Skin protection

Hand protection Neoprene gloves. Confirm with a reputable supplier first.

Wear appropriate chemical resistant clothing. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Granules **Appearance Physical state** Solid. Solid. **Form** White Color Odor Mild chlorine **Odor threshold** Not available. Not available. pН Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

Pour point

Not available. Not available. Partition coefficient Not available.

(n-octanol/water)

Specific gravity

Flash point Not available. Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available.

Vapor pressure Not available. Vapor density Relative density Not available. Not available. Solubility(ies) Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available **Viscosity**

10. Stability and Reactivity

Reactivity Decomposes slowly on exposure to water.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Material is stable under normal conditions. Chemical stability

Conditions to avoid Contact with incompatible materials. Excessive heat.

Strong oxidizing agents. Caustics. Acids. Reducing agents. Organic materials. Combustible Incompatible materials

materials.

#18539 Page: 3 of 7 Issue date 26-September-2014 Hazardous decomposition products

May include and are not limited to: Oxides of nitrogen. Chlorine gas. Nitrogen trichloride. Hydrogen

chloride. Toxic fumes.

11. Toxicological Information

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

Information on likely routes of exposure

Ingestion Harmful if swallowed.

May cause irritation to the respiratory system. Inhalation

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause respiratory irritation.

Components **Species Test Results**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Acute

Dermal

LD50 Rabbit > 3160 mg/kg

> > 2000 mg/kg 11000 mg/kg

Inhalation

LC50 Rat > 1637.5 mg/m3/4H

> > 1481 mg/m3, 4 hours > 847.5 mg/m3, 4 hours

Oral

LD50 Rat 1670 mg/kg

> 1420 mg/kg 620 mg/kg

Causes skin irritation. Skin corrosion/irritation

Not available. **Exposure minutes** Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value Not available. Not available. Iris lesion value Not available. Conjunctival reddening

value

Not available.

Conjunctival oedema value Not available. Recover days

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

No data available to indicate product or any components present at greater than 0.1% are Mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Not classified. **Teratogenicity**

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

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repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

Not classified.

Further information
Name of Toxicologically
Synergistic Products

Not available.

12. Ecological Information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Test Results

0.28 mg/l, 96 Hours

See below

Product Species
Spa Chlorine Concentrate Granular (CAS Mixture)

LC50 Bluegill Sunfish

Fish LC50 Rainbow Trout 0.22 mg/l, 96 Hours

Components Species Test Results

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.15 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 0.29 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

1 %

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium dichloroisocyanurate dihydrate (CAS

51580-86-0)

WHMIS status Controlled

WHMIS classification Class C - Oxidizing Material, Class D - Division 1B, 2B

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WHMIS labeling





US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

chemical

Nο

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Not regulated.

Administration (FDA) **US state regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

US - New Jersey RTK - Substances: Listed substance

Sodium dichloroisocyanurate dihydrate (CAS

Listed.

Listed.

51580-86-0)

US. Massachusetts RTK - Substance List

Sodium dichloroisocyanurate dihydrate (CAS

51580-86-0)

US. Pennsylvania RTK - Hazardous Substances

Sodium dichloroisocyanurate dihydrate (CAS Listed.

51580-86-0)

US. Rhode Island RTK

Not regulated.

Inventory status

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

Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) 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

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Other information

The information in the sheet was written based on the best knowledge and experience currently available. 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 use of or reliance on any information contained in this document.

Issue date 26-September-2014 01-October-2014 **Effective date** 01-October-2017 **Expiry date**

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

> This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.