

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Revision 06/03/2022

Supersedes Revision: 12/17/2014

1. Product and Company Identification

Product Name: Vinyl Liner Super Shock + Plus
Trade Name: 1,3-dichloro-1,3,5-triazine-2,4,6(1H,3H,5H)-trione sodium salt, dihydrate; NaDCC dihydrate; Sodium dichloroisocyanurate, dihydrate; Troclosene sodium, dihydrate
Chemical Formula: $\text{NaC}_3\text{N}_3\text{O}_3\text{Cl}_2 \cdot 2\text{H}_2\text{O}$
Chemical Family Molecular: Chloroisocyanurate
Type of Product and Use: Disinfectant, sanitizer, bactericide, and algacide for pools, spas, and hot tubs.
Restricted Use: This is a pesticide product. Do not use in a pesticide application not approved by U.S. EPA.
Supplier: Clearon Corp.
 95 MacCorkle Avenue, SW South Charleston, WV 25303
 Toll Free Number: 1-800-811-2326
Emergency Contact: Chemtrec (800) 424-9300

2. Hazards Identification

Acute Toxicity Oral, Category 4, (H302) Harmful if Swallowed
 Acute Inhalation, Category 3, (H331) Toxic if Inhaled
 Skin Corrosion/Irritation, Category 1C, (H314) Causes severe skin burns and eye damage
 Eye Damage/ Irritation, Category 1, (H318) Causes serious eye damage
 Aquatic Acute, Category 1, (H400) Very toxic to aquatic life
 Aquatic Chronic, Category 1, (H410) Very toxic to aquatic life with long lasting effects

Labels and other form of warning symbol(s):



GHS07



GHS06



GHS05



GHS09

GHS Signal Word:**DANGER****GHS Hazard Statements:**

H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H331 - Toxic if inhaled.
 H400 - Very toxic to aquatic life.
 H410 - Very toxic to aquatic life with long lasting effects.
 P260 + P261 - Do not breathe/Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 - Wash face, hands, and any exposed skin thoroughly after handling.
 P265 - Do not touch eyes.
 P270 - Do not eat, drink, or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P284 - Wear respiratory protection.

GHS Precaution Statements:

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

GHS Response Statements:**IF INHALED**

P304 + P340 - Remove person to fresh air and keep comfortable for breathing.

P316 - Get emergency medical help immediately.

P321- Specific treatment for inhalation see section 4 first aid measures.

IF ON SKIN

P302 + P361-Take off Immediately all contaminated clothing.

P354 - Immediately rinse skin with water for several minutes.

P363 - Wash contaminated clothing before reuse.

P321 - Specific treatment for skin or eye see first aid section.

IF IN EYES

P305 + P354 + P338 - Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317- Get emergency medical help.

IF SWALLOWED

P301 + P317 + P330 - P331- Get emergency medical help. Rinse mouth. Do not induce vomiting.

STORAGE AND DISPOSAL

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

P501 - Dispose of contents/container in accordance with national and international regulations.

Hazards Not Otherwise Classified:

EUH031 - Contact with acids liberates toxic gas

Damp or wet material may generate hazardous and toxic gases
NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact).**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Weight
51580-86-0	Sodium dichloroisocyanurate dihydrate	99.0 -100.0 %
7647-14-5	Sodium Chloride	0-1%

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

4. First Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin Contact: Take off contaminated clothing. Wash skin with soap and water. Call a poison control center or doctor for treatment advice. Get medical attention immediately.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call poison control center, or doctor immediately for treatment advice. Clean mouth with water and drink afterwards plenty of water. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, acute or delayed

Eye Contact: Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause permanent damage.

Inhalation: Irritating to the nose, mouth, throat, and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.

Ingestion: Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

No specific antidote. Treat symptomatically and supportively. In case of ingestion DO NOT induce vomiting.

Protection of First Aiders: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

5. Fire Fighting Measures

Suitable Extinguishing Media: Water. Flood with copious amounts of water.

Unsuitable Extinguishing Media: Do not scatter spilled material with high pressure water streams. Do not use dry chemical extinguisher containing ammonia compounds.

Unusual Fire and Explosion Hazards: Decomposes when exposed to excessive heat or fire, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine and CO. When nitrogen trichloride is present, may decompose explosively when heated or involved in a fire.

Fire Fighting Instructions: Cool containers with water spray. Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.

Hazards Not Otherwise Classified: NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact).

6. Accidental Release Measures**Personal Precautions, Protective Equipment, and Emergency Procedures**

Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. For small spills in a well-ventilated area, wear a NIOSH approved half-face or full-face tight-fitting respirator or a loose-fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear; and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with material. CAUTION Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Methods and Material for Containment and Cleaning Up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur.

Environmental Precautions

Avoid release to the environment.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

7. Handling and Storage

Handling: Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. NEVER add water to this product. Always add product to large quantities of water. Use clean, dry utensils. Do not add the product to any dispensing device containing residuals of other products. Take any precaution to avoid mixing with combustibles or incompatible materials. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

Storage: Store in a dry, cool, well-ventilated area away from incompatible materials. Store in original container in a dry area where temperatures do not exceed 53°C (128°F). Keep container tightly closed, away from food, drink, and animal feed, ensure container is properly labeled, and do not allow water to get into container. Keep out of reach of children.

Materials To Avoid (Incompatible Materials): Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds. Substances not listed must be evaluated for compatibility prior to use.

Technical Precautions: Due to decomposition nature of product, it is recommended to avoid using friction-producing equipment such as screw conveyors, or items with internal bearings.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

8. Exposure Controls/Personal Protection				
CAS #	Component	OSHA TWA	ACGIH TWA	Other Limits
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt, dihydrate	5 mg/m ³ *	3 mg/m ³ **	No data.
7647-14-5	Sodium Chloride	Not Determined	Not Determined	Not Determined

Exposure Limits: There are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

*No limit exists for Sodium dichloroisocyanurate dihydrate, the referenced limit is the OSHA PEL for respirable dust.

**No limit exists for Sodium dichloroisocyanurate dihydrate, ACGIH recommends respirable dust be kept below 3mg/m³.

Engineering Controls (Ventilation, etc.): Showers, eyewash stations and ventilation systems. Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure proper ventilation.

Personal Protective Equipment



Respiratory Protection: When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter.

Hand Protection: Neoprene gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin and Body Protection: Impervious body covering clothes, boots, and neoprene apron.

Eye Protection: Use chemical safety glasses to avoid eye contact. Where industrial use occurs, chemical goggles may be required.

Hygienic Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing. Safety shower and eye bath should be provided. Wear suitable gloves and eye/face protection. Wash hands before breaks and at the end of workday. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling and before eating or smoking.

Environmental Exposure Controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

9. Physical and Chemical Properties

Appearance:	White/Solid/Granules
Odor:	Slight chlorine odor
Odor Threshold:	Not Determined
pH:	6.0 (1% aq. solution at 25°C)
Melting Point/Range:	Loses water of hydration at 50-150°C 220°C (Decomposes without melting)
Freezing Point/Range:	Not Applicable
Boiling Point/Range:	Not Applicable (decomposes)
Flash Point:	Not Applicable
Evaporation Rate (ether=1):	Not Applicable under standard conditions
Flammability (solid, gas):	Not Flammable
Upper/Lower Flammability or Explosive Limits:	Not Flammable
Vapor Pressure:	< 5 x 10 ⁻⁵ mm Hg (< 0.006 Pa) at 20°C
Vapor Density:	Not Applicable under standard conditions
Relative Density:	No Data Available
Bulk Density:	56-60 lb/cu ft

Solubilities

Water (natural pH)	15 g/L (10°C) 20 g/L (20°C) 28 g/L (30°C) 38 g/L (40°C)
Acetone	< 0.5%
Benzene	Insoluble
Chloroform	Insoluble

Partition coefficient: n-octanol/water:	No Data Available
Autoignition Temperature:	No Data Available
Decomposition Temperature:	Loses water of hydration at 50-150°C 220°C (Decomposes without melting)
Viscosity:	Not Applicable to solid material

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

10. Stability and Reactivity

Reactivity: Not reactive under normal conditions.**Stability:** Stable under normal conditions.**Possibility of Hazardous Reactions:** If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.**Conditions To Avoid:** Do not exceed storage temperatures. (See section 7: "Storage" for storage temperature and appropriate storage conditions).**Materials To Avoid (Incompatible Materials):** Small amounts of water. Do not package directly in paper or cardboard. Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds. Substances not listed must be evaluated for compatibility prior to use.**Hazardous Decomposition Products:** Nitrogen oxides (NOx), Hydrogen chloride gas, Carbon oxides, Sodium oxides, Nitrogen trichloride, Chlorine, Carbon monoxide.

11. Toxicological Information

Likely Routes of Exposure**Inhalation:** Specific test data for the substance or mixture is not available. May cause irritation/damage of respiratory tract. (Based on components).**Eye Contact:** Specific test data for the substance or mixture is not available. Causes serious eye irritation/damage. (Based on components). May cause redness, itching, and pain.**Skin Contact:** Specific test data for the substance or mixture is not available. May cause irritation/damage. Prolonged contact may cause redness and irritation. (Based on components).**Ingestion:** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (Based on components).**Symptoms related to the physical, chemical, and toxicological characteristics****Symptoms:** May cause redness and tearing of the eyes.**Numerical Measures of Toxicity****Acute Toxicity:** Not Classified**The following values are calculated based on chapter 3.1 of the GHS document****ATEmix (oral)** 1,841.40 mg/kg**Unknown acute toxicity** 99 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

COMPONENT TOXICITY DATA: The component toxicity data is populated by the WERCsmart database.**Component Information:**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dichloroisocyanurate dihydrate	= 1823 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin Corrosion/Irritation:** Causes severe skin burns.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Serious Eye Damage/Irritation: Causes serious eye damage.**Respiratory or Skin Sensitization:** Not a sensitizer.**Germ Cell Mutagenicity:** Not classified.**Carcinogenicity (NTP, IARC, OSHA):** Not classified.**Reproductive Toxicity:** Not classified, suspected of damaging fertility or the unborn child.**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.**Aspiration Hazard:** Not classified.**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes can occur. Dust may be harmful or cause irritation.**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.**Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts.**Chronic Symptoms:** None expected under normal conditions of use.**12. Ecological Information****Ecotoxicity (General)** - Very toxic to aquatic life with long lasting effects.**Aquatic Toxicity**

The aquatic toxicity data and information is populated from the WERCsmart database.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Sodium dichloroisocyanurate dihydrate	No Data Available	No Data Available	No Data Available	No Data Available
Sodium Chloride	No Data Available	No Data Available	No Data Available	No Data Available

Avian Toxicity: No Data Available.**Persistence and Degradability:** No Data Available.**Bioaccumulative Potential:** No Data Available.**Mobility in soil:** No Data Available.**Other Adverse Effects:** Avoid release to the environment.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

13. Disposal Considerations

Waste Disposal Method: Care must be taken to prevent environmental contamination from the use of this material. This material is a registered pesticide. Dispose in accordance with all applicable regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. If this product becomes a waste or if waste cannot be disposed of by use according to label instructions, contact your state pesticide and/or environmental control agency, and observe all federal, state, and local environmental regulations when disposing of this material.

Disposal of Packaging: Do not reuse empty containers. See product label for container disposal information. Empty containers should be disposed of in accordance with all applicable laws and regulations.

14. Transport Information**LAND TRANSPORT (DOT): Shipment by Land/Ground:**

Not regulated for non-bulk shipments only.

MARINE TRANSPORT (IMDG/IMO): Shipment by Vessel:

UN-No.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOORISOCYANURATE DIHYDRATE), MARINE POLLUTANT

Hazard Class: 9

Packing Group: III

EmS-No.: F-A, S-F

Description: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOORISOCYANURATE DIHYDRATE), 9, III, MARINE POLLUTANT

AIR TRANSPORT (ICAO/IATA): Shipment by Air:

UN-No.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOORISOCYANURATE DIHYDRATE)

Hazard Class: 9

Packing Group: III

ERG Code: 9L

Description: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOORISOCYANURATE DIHYDRATE), 9, III

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

15. Regulatory Information**TSCA:** Reported in the EPA TSCA Section 8(b) Inventory.**DSL:** Listed.

FIFRA: This product is registered under U.S. EPA in accordance with FIFRA regulations and subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) in accordance with OSHA regulations, and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is listed below. The pesticide label also includes the directions for use.

Emergency overview in accordance with EPA Master Label: DANGER. Hazards to humans and domestic animals. Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Strong oxidizing agent. This pesticide is toxic to fish and aquatic organisms.

CERCLA SECTIONS (102a/103): Not Regulated.**SARA (311, 312):** Not Regulated.**CWA (Clean Water Act):** Not Regulated.**U.S. STATE REGULATIONS:**

California Proposition 65

This product does not contain any Prop 65 chemicals.

U.S. State Right-To-Know Regulations

Chemical Name	Massachusetts	Pennsylvania
Sodium dichloroisocyanurate dihydrate (51580-86-0)	Listed	Listed

Waste Classifications: If this product becomes a waste as defined under 40 CFR 261, it may meet the criteria of a hazardous waste. Please check with all federal, state, and local regulations to determine if this product meets the definition of a hazardous waste listed under 40 CFR 262.11.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

16. Other Information

All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS).

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Clearon Corp. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Clearon Corp. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.

Issuing Date: June 3, 2022

Prepared By:

Clearon Corp.

95 MacCorkle Ave. SW,

South Charleston, WV 25303

USA Tel: 1-800-811-2327

End of safety data sheet