



# SAFETY DATA SHEET


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

<b>Product name</b>	<b>Green Klean Chlorinated Disinfecting Tablets</b>	
<b>Product id</b>	AS_9717BT_GK	
<b>Revision date</b>	29/08/2016	<b>Revision: 2</b>

## 1. Identification of the substance & the company

<b>Chemical name</b>	DICHLOROISOCYANURIC ACID, SODIUM SALT OF
<b>Synonym(s)</b>	Effervescent NaDCC Tablets, Sodium Dichloro-s-Triazinetrione
<b>Type of product and use</b>	Multi-purpose product including bleaching, cleaning, and deodorizing.
<b>Supplier</b>	<b>SOP Green Klean</b> 615 Industrial Dr, Ste D Cary, IL 60013 USA Phone Number 815-479-0460
<b>Emergency Telephone</b>	Medical: (800) 420-9236 Chemtrec: (800) 424-9300

## 2. Hazards identification

<b>GHS classification</b>	Warning Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Avoid breathing dust. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling. 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. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
	
<b>Signal Word</b>	
<b>Hazard statements</b>	Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children. Dispose of waste and residues in accordance with local authority requirements. None known. Contact with acids liberates toxic gas.



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**Precautionary statements**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash hands thoroughly after handling
- P271 - Avoid use in a confined area
- P273 - Avoid release to the environment
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell
- P391 - Collect spillage
- 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

### 3. Composition / information on ingredients

Components	CAS No.	Weight %
DICHLOROISOCYANURIC ACID, SODIUM SALT OF	2893-78-9	30-62.5
ADIPIC ACID	124-04-9	10-35
SODIUM BICARBONATE	144-55-8	21.44-22.76
SODIUM CARBONATE	497-19-8	2-12

### 4. First-aid measures

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.



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**Ingestion** Call poison control center, or doctor immediately for treatment advice.  
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** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash off with soap and water. Get medical attention if irritation develops and persists.

**- Skin contact** Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**- 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.

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.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

**- Ingestion** Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

None known.

During fire, gases hazardous to health may be formed.

**Note to physician** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Medical conditions aggravated by exposure**



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## 5. Fire - fighting measures

**Suitable extinguishing media** Large amounts of water may be needed and the flow of water should not be stopped until the fire/reaction has stopped.

**Extinguishing media not to be used** Avoid using dry chemicals, carbon dioxide or halogenated extinguishing agents.

**Unusual fire and explosion hazards** When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, nitrogen, cyanogen chloride, phosgene, chlorine and CO.

**Fire fighting procedure** 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.

## 6. Accidental release measures

**Personal precautions** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

**Methods for cleaning up** Collect spillage. Sweep up or gather material and place in appropriate container for disposal. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

- **Soil**
- **Water**
- **Air**

Mix only with water. Do not mix with other chemicals. Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Do not taste or swallow. Provide adequate ventilation. Contamination with moisture, dirt, organic matter or other chemicals or any other foreign matter may start a chemical reaction with generation of heat, liberation of hazardous gases and possible generation of fire and explosion. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Store in original tightly closed container. Keep container dry. Do not store near acids. Contact with acids liberates toxic gas. Store away from incompatible materials



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## 7. Handling and storage

**Handling** Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing the substance. Use respiratory protection when exposure is possible. Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product.

**Storage** Store in a dry, cool (< 25°C), well ventilated area away from incompatible materials (see "materials to avoid"). Do not allow water to get into the container

## 8. Exposure controls / personal protection

**Exposure Limits :**

Components	ACGIH-TLV Data	OSHA (PEL) Data
DICHLOROISOCYANURIC ACID, SODIUM SALT OF 2893-78-9	Not determined	Not determined
ADIPIC ACID 124-04-9	5 mg/m <sup>3</sup>	Not determined
SODIUM BICARBONATE 144-55-8	Not determined	Not determined
SODIUM CARBONATE 497-19-8	Not determined	Not determined

**Ventilation requirements** This material should be handled in a well-ventilated area. Use local exhaust as necessary, especially under dusty conditions.

**Personal protective equipment:**

- **Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.
- **Hand protection** Chemical resistant gloves, PVC or nitrile recommended
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Use protective clothing impervious to this material.

**Hygiene measures** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

## 9. Physical and chemical properties

**Appearance** White to off white tablets  
**Odor** Slight chlorine.  
**pH** 5-6



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<b>Boiling point/range</b>	Not applicable	
<b>Flash point</b>	Not applicable	
<b>Evaporation rate (ether=1)</b>	Not applicable under standard conditions	
<b>Flammability (solid, gas)</b>	Not flammable	
<b>Vapor pressure</b>	Not applicable under standard conditions	
<b>Vapor density</b>	Not applicable under standard conditions	
<b>Solubility:</b>		
- <b>Solubility in water</b>	Completely miscible	
<b>Partition coefficient (n-octanol/water)</b>	Log Kow - 0	
<b>Auto-ignition temperature</b>	Not applicable	
<b>Decomposition temperature</b>	225-250°C (437-482°F)	

## 10. Stability and reactivity

<b>Reactivity</b>	Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.
<b>Stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	Contact with acid liberates toxic gases. If heated by outside source to temperatures above 240°C (464°F), this product will undergo decomposition with the evolution of noxious gases.
<b>Conditions to avoid</b>	Heating above decomposition temperature. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion.
<b>Materials to avoid</b>	Strong acids and/or alkalines. Reducing agents. Combustible material. The active ingredient in this preparation is a strong oxidising agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidisable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.
<b>Hazardous decomposition products</b>	Nitrogen trichloride, nitrogen, cyanogen chloride, phosgene, chlorine and CO.

## 11. Toxicological information

<b>Note:</b>	<i>The toxicological data refer only to the active ingredient unless otherwise specified</i>
<b>Acute toxicity:</b>	
- <b>Rat oral LD50</b>	>2000 mg/kg (the product as a whole)



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<b>- Rabbit dermal LD50</b>	>5000 mg/kg	
<b>- Rat inhalation LC50</b>	0.27-1.17 mg/L/4h	
<b>- Dermal irritation (rabbit)</b>	Moderate irritant	
<b>- Eye irritation (rabbit)</b>	Severe irritant	
<b>Dermal sensitization</b>	Not a sensitizer	
<b>Chronic toxicity</b>	Chronic inhalation exposure may cause impairment of lung function and permanent lung damage. Based on animal studies, exposure to concentrations of monosodium cyanurate at the solubility limit may cause cardiovascular, kidney and urinary bladder effects.	
<b>Mutagenicity</b>	Not mutagenic by the Ames Test.	
<b>Carcinogenicity</b>	Not known to be a carcinogen. Not classified by IARC, OSHA, EPA. Not included in NTP 13th Report on Carcinogens	
<b>Reproductive toxicity</b>	No data available	

## 12. Ecological information

**Note:** The environmental toxicity data mentioned below are from studies conducted on the active ingredient.

### Aquatic toxicity :

<b>- 96 Hour-LC50, Fish</b>	0.13-0.36 mg/l (Rainbow trout) 0.25-1.0 mg/l (Bluegill sunfish) 1.21 mg/l (Inland silverside)
<b>- 96 Hour-EC50, Marine Invertebrate</b>	1.65 mg/l (96h, Mysid shrimp)
<b>- 48 Hour-EC50, Marine Invertebrate</b>	0.196 mg/l (Water flea)
<b>Avian toxicity:</b>	
<b>- Oral LD50, Bobwhite quail</b>	1732 mg/kg
<b>- Oral LD50, Mallard duck</b>	1916 mg/kg
<b>- Dietary LC50, Mallard duck</b>	>10,000 ppm
<b>- Dietary LC50, Bobwhite quail</b>	10,000 ppm



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**Persistence and degradability** The materials used in this preparation will not persist in the environment. The free available chlorine from Sodium dichloroisocyanurate is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. Sodium Dichloroisocyanurate is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

**Bioaccumulative potential** Trichloroisocyanuric acid hydrolyses in water liberating chlorine and cyanuric acid. These products are not bioaccumulative

**Note:** Not considered to be PBT or vPvB

## 13. Disposal considerations

**Waste disposal** Avoid access to streams, lakes or ponds. Observe all federal, state and local environmental regulations when disposing of this material. Do not transport damp or wet material. Neutralise materials to a non-oxidising state for safe disposal.

**Disposal of Packaging** Clean Container and dispose of according to local and national regulations

## 14. Transportation information

Independent tests, carried out by TNO Prins Mauritis Laboratory, conducted according to the procedure as described in the United Nations Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, third revised edition, test O.1. have demonstrated that the product is not oxidizing for transport

**DOT** Not regulated for non bulk shipments  
For bulk shipments regulated as:  
UN No. 3077  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s (contains Sodium dichloro-s-triazinetrione)  
Class: 9 - Miscellaneous Hazardous Material  
Packing Group: III  
Label: 9  
Note: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity and Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.





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## 15. Regulatory information

**USA** All the ingredients in this preparation are listed in the EPA TSCA Inventory. This product is registered under FIFRA

- EPA Registration no. 69470-37-91038

- Emergency overview in accordance to EPA Master Label DANGER  
Corrosive  
Causes irreversible eye damage  
Harmful if swallowed, inhaled or absorbed through the skin  
Strong oxidizing agent

**CERCLA/SARA - 302 ext. haz. substances** This material contains hazardous substance (Adipic Acid) as defined by CERCLA/SARA and the Reportable Quantity (RQ) is 5000 lbs.

- SARA (311, 312) This product is categorized as an immediate health hazard, and fire and reactivity physical hazard (Sodium dichloroisocyanurate)

- Massachusetts Right-to-Know Hazardous Substances list Listed (Adipic Acid, Sodium dichloroisocyanurate)

- New Jersey Right-to-Know Hazardous Substances list Listed (Adipic Acid, Sodium dichloroisocyanurate)

- Pennsylvania Right-to-Know Hazardous Substances list Listed (Adipic Acid, Sodium dichloroisocyanurate)

- Rhode Island Right-to-Know Hazardous Substances list Listed (Adipic Acid, Sodium dichloroisocyanurate)

**Canada** Listed in DSL

**WHMIS hazard class** For Sodium dichloroisocyanurate:  
C oxidizing materials  
D1B Toxic material causing immediate and serious toxic effects  
D2B Toxic materials causing other toxic effects

For Sodium Carbonate:  
E corrosive material  
D2B Toxic materials causing other toxic effects

**EU** All ingredients are reported in EINECS



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## 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, SOP Green Klean 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 SOP Green Klean 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.

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**End of safety data sheet**