SAFETY DATA SHEET


Product name
Green Klean Chlorinated Disinfecting Tablets

Product id
AS_9717BT_GK

Revision date
29/08/2016

Revision:
2

1. Identification of the substance & the company

Chemical name
DICHLOORISOCYANURIC ACID, SODIUM SALT OF

Synonym(s)
Effervescent NaDCC Tablets, Sodium Dichloro-s-Triazinetrione

Type of product and use
Multi-purpose product including bleaching, cleaning, and deodorizing.

Supplier
SOP Green Klean
615 Industrial Dr, Ste D
Cary, IL 60013
USA
Phone Number 815-479-0460

Emergency Telephone
Medical: (800) 420-9236
Chemtrec: (800) 424-9300

2. Hazards identification

GHS classification
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.

Signal Word

Hazard statements
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICHLOROISOCYANURIC ACID, SODIUM SALT OF</td>
<td>2893-78-9</td>
<td>30-62.5</td>
</tr>
<tr>
<td>ADIPIC ACID</td>
<td>124-04-9</td>
<td>10-35</td>
</tr>
<tr>
<td>SODIUM BICARBONATE</td>
<td>144-55-8</td>
<td>21.44-22.76</td>
</tr>
<tr>
<td>SODIUM CARBONATE</td>
<td>497-19-8</td>
<td>2-12</td>
</tr>
</tbody>
</table>

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
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.

- Soil

- Water

- Air


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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:

<table>
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<tr>
<th>Components</th>
<th>ACGIH-TLV Data</th>
<th>OSHA (PEL) Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICHLOOROSOCYANURIC ACID, SODIUM SALT OF 2893-78-9</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
<tr>
<td>ADIPIC ACID 124-04-9</td>
<td>5 mg/m³</td>
<td>Not determined</td>
</tr>
<tr>
<td>SODIUM BICARBONATE 144-55-8</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
<tr>
<td>SODIUM CARBONATE 497-19-8</td>
<td>Not determined</td>
<td>Not determined</td>
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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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Boiling point/range: Not applicable
Flash point: Not applicable
Evaporation rate (ether=1): Not applicable under standard conditions
Flammability (solid, gas): Not flammable
Vapor pressure: Not applicable under standard conditions
Vapor density: Not applicable under standard conditions
Solubility:
- Solubility in water: Completely miscible
Partition coefficient (n-octanol/water): Log Kow - 0
Auto-ignition temperature: Not applicable
Decomposition temperature: 225-250°C (437-482°F)

10. Stability and reactivity

Reactivity: Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.
Stability: Stable under normal conditions
Possibility of hazardous reactions: 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.
Conditions to avoid: 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.
Materials to avoid: 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.

Hazardous decomposition products: Nitrogen trichloride, nitrogen, cyanogen chloride, phosgene, chlorine and CO.

11. Toxicological information

Note: The toxicological data refer only to the active ingredient unless otherwise specified

Acute toxicity:
- Rat oral LD50: >2000 mg/kg (the product as a whole)
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- Rabbit dermal LD50   >5000 mg/kg
- Rat inhalation LC50  0.27-1.17 mg/L/4h
- Dermal irritation (rabbit) Moderate irritant
- Eye irritation (rabbit) Severe irritant
- Dermal sensitization Not a sensitizer

Chronic toxicity
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.

Mutagenicity
Not mutagenic by the Ames Test.

Carcinogenicity
Not known to be a carcinogen.
Not classified by IARC, OSHA, EPA.
Not included in NTP 13th Report on Carcinogens

Reproductive toxicity
No data available

12. Ecological information

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

Aquatic toxicity :
- 96 Hour-LC50, Fish 0.13-0.36 mg/l (Rainbow trout)
  0.25-1.0 mg/l (Bluegill sunfish)
  1.21 mg/l (Inland silverside)
- 96 Hour-EC50, Marine Invertebrate 1.65 mg/l (96h, Mysid shrimp)
- 48 Hour-EC50, Marine Invertebrate 0.196 mg/l (Water flea)

Avian toxicity:
- Oral LD50, Bobwhite quail 1732 mg/kg
- Oral LD50, Mallard duck 1916 mg/kg
- Dietary LC50, Mallard duck >10,000 ppm
- Dietary LC50, Bobwhite quail 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 produces 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 Mauritius 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
16. Other information

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

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End of safety data sheet