

SAFETY DATA SHEET

AquaDoc | Spa Chlorine Granules for Hot tub - Spa Sanitizing Granules for Hot Tubs - Recommended Chlorine for spa - Granulated Chlorine for hot tub and spa - Hot Tub Chlorinating Granules

Date Issued : 07/16/2020
 SDS No. : AquaDoc Chlorinating Granules
 Date Revised : 01/03/2023
 Revision No : 1
 EPA #: 46043-11-96264

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AquaDoc | Spa Chlorine Granules for Hot tub - Spa Sanitizing Granules for Hot Tubs - Recommended Chlorine for spa - Granulated Chlorine for hot tub and spa - Hot Tub Chlorinating Granules

GENERAL USE: Spa and Swimming Pool Sanitizer

PRODUCT DESCRIPTION: Swimming Pool Sanitizer/Water Treatment

ACTIVE INGREDIENT(S): Sodium Dichloro-S-Triazinetrione Dihydrate

DISTRIBUTOR:

Mav Aqua, LLC. DBA Mav AquaDoc
 1653 Lititz Pike

Suite 1112

Lancaster, PA 17601

Emergency Phone: (877) 278-2006

Web: MAVAquaDoc.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4

Acute Toxicity (Inhalation), Category 2 * (See note below **Hazard Statements**)

Skin Corrosion/Skin Irritation, Category 1C

Serious Eye Damage, Category 1

Target Organ Toxicity (Single exposure), Category 3

Environmental:

Acute Hazards to the Aquatic Environment, Category 1

Chronic Hazards to the Aquatic Environment, Category 1

GHS LABEL



Skull and crossbones



Corrosion



Exclamation mark



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

76078CJQ: H330: Fatal if inhaled. * (See note below)

* **NOTE:** This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. *If ground or otherwise in a powdered form*, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

PRECAUTIONARY STATEMENT(S)

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

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P285: In case of inadequate ventilation wear respiratory protection.
 4304ZF6P: Wash exposed skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.

Response:

P330: Rinse mouth.
 P391: Collect spillage.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P363: Wash contaminated clothing before reuse.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310: Immediately call a POISON CENTER/doctor/...

Storage:

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

Disposal:

P501: Dispose of contents/container to ...

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|--|------|------------|
| Sodium Dichloro-s-triazinetrione Dihydrate | 99 | 51580-86-0 |

COMMENTS: 55.0 - 56.0% active chlorine

4. FIRST AID MEASURES

EYES: Hold eyes 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. See a doctor immediately.

SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Get medical attention immediately. Have person sip a glass of water, if able to swallow. Do not induce vomiting unless told to do so.

INHALATION: Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use massive amounts of water. Do not use dry chemicals, carbon dioxide, halogenated agents.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus in pressure-demand mode and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, nitrogen trichloride, hydrogen trichloride, nitrogen oxide, and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up spill with a dry broom into suitable container for disposal.

RELEASE NOTES: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or oceans Do not flush into surface water or sanitary sewer systems.

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COMMENTS: Avoid inhalation and contact with eyes and skin. Use personal protective equipment.

7. HANDLING AND STORAGE

HANDLING: Wear proper protective equipment in order to avoid contact with eyes or skin. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Use only in area with appropriate exhaust ventilation.

STORAGE: Keep product in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame. Keep storage room temperature under 40 degrees C. Do not store with water, oxidizing agents, alkalies, grease, reducing agents and acids. Keep out of reach of children.

COMMENTS: Incompatible Products: Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | |
|--|-----------------|-----|-----|-------------------|
| Chemical Name | EXPOSURE LIMITS | | | |
| | Type | | ppm | mg/m ³ |
| Sodium Dichloro-s-triazinetrione Dihydrate | OSHA PEL | TWA | [1] | [1] |
| | ACGIH TLV | TWA | [2] | [2] |
| | Supplier OEL | TWA | [3] | [3] |
| Footnotes: | | | | |
| 1. 15 mg/m ³ (total dust) TWA; 5 mg/m ³ (respirable) 8-hr TWA for Particulates Not Otherwise Regulated | | | | |
| 2. 3 mg/m ³ (respirable) TWA; 10 mg/m ³ (inhalable) TWA - for Particulates Not Otherwise Classified | | | | |
| 3. The TLV for Chlorine is 0.5 ppm (1.5 mg/m ³) TWA and 1ppm STEL. | | | | |

ENGINEERING CONTROLS: Ventilation systems, eyewash stations, showers.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety goggles.

SKIN: Chemical-resistant gloves.

RESPIRATORY: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

PROTECTIVE CLOTHING: Wear impervious long-sleeved clothing to minimize skin contact.

WORK HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Provide regular cleaning of equipment, work area and clothing.

OTHER USE PRECAUTIONS: Protective material: Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), Tyvek.

COMMENTS: Exposure limits for Air Contaminants (OSHA)

Particulates not otherwise regulated: Total dust; TWA 15 mg/m³; Respirable fraction: TWA 5 mg/m³

Exposure Limits for Air Contaminants (ACGIH)

Particulates (insoluble or poorly soluble) - Respirable Particles: TWA 3 mg/m³; Inhalable Particles: TWA 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

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ODOR: Mild chlorine.
APPEARANCE: White granular.
pH: 6.5 (1% solution.)
FLASHPOINT AND METHOD: Not Applicable
FLAMMABLE LIMITS: 0 to 0
Notes: Non-flammable.
VAPOR PRESSURE: 100
VAPOR DENSITY: 100
BOILING POINT: Not Applicable
FREEZING POINT: Not Applicable
THERMAL DECOMPOSITION: May generate heat at 45 degrees C or higher.
SOLUBILITY IN WATER: 26.25 g/100g at 25°C
EVAPORATION RATE: Not Applicable
DENSITY: 16.69 at (68°F)
SPECIFIC GRAVITY: 2
VISCOSITY: Not Applicable
(VOC): 1

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.
STABILITY: Stable under recommended storage conditions.
CONDITIONS TO AVOID: Heat, direct sunlight, water and moisture. (Keep product under 40 degrees C.)
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, nitrogen trichloride, hydrogen chloride, nitrogen oxide, carbon monoxide, carbon dioxide, and nitrogen.
INCOMPATIBLE MATERIALS: Acid, alkali, other chlorine agents, oils/fats, and flammable materials.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) |
|--|-----------------------------|----------------------------------|
| Sodium Dichloro-s-triazinetriene Dihydrate | 1800 mg/kg (rat) | > 5000 mg/kg (rabbit) |

DERMAL LD₅₀: > 2000 mg/kg - Rabbit

ORAL LD₅₀: 1823 mg/kg - Rat

Notes: Merck

INHALATION LC₅₀: 0.27 to 1.17 mg/L (4hr)

Notes: This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

GERM CELL MUTAGENICITY: AMES Test: Negative (*Test substance: monosodium cyanurate*)

Mouse Lymphoma Assay: Negative (*Test substance monosodium cyanurate*)

CARCINOGENICITY

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NOTES: Not classified as a carcinogen by NTP, IARC or OSHA.

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE: Breathing dust or fumes is expected to be a primary route of exposure. May produce throat and respiratory tract irritation.

12. ECOLOGICAL INFORMATION

BIOACCUMULATION/ACCUMULATION: This product is not expected to bioaccumulate.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 0.42 mg/L (Oryzias latipes)

CHEMICAL FATE INFORMATION: Decomposable in nature.

0% by BOD after 14 days. 7.8% by TOC after 14 days. 5.3% by HPLC after 14 days.

100% in aerobic activated sludge after 8 hours. 100% in anaerobic sludge after 72 hours. 52% - 100% in aerobic activated sludge after 9-23 days.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Solids, n.o.s

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1759

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Marine Pollutant

SPECIAL SHIPPING NOTES: DOT Special Provision #28 states "The dihydrated sodium salt of dichloroisocyanuric acid does not meet the criteria for inclusion in Division 5.1 (Oxidizer) and is not subject to the requirements of this subchapter unless meeting the criteria for inclusion in another class or division

AIR (ICAO/IATA)

SHIPPING NAME: Corrosive Solids, n.o.s

TECHNICAL NAME: Corrosive Solids, n.o.s (Sodium dichloroisocyanurate dihydrate)

UN/NA NUMBER: 1759

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

ERG: 8L

NOTE: Marine Pollutant

VESSEL (IMO/IMDG)

SHIPPING NAME: Corrosive Solids, n.o.s

TECHNICAL NAME: Corrosive Solids, n.o.s (Sodium dichloroisocyanurate dihydrate)

UN/NA NUMBER: 1759

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

EmS: F-A, S-B

NOTE: Marine Pollutant

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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Hazard Categories: Health: Immediate (Acute) Health Hazard

313 REPORTABLE INGREDIENTS: None.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

REGULATIONS

STATE REGULATIONS: Massachusetts Hazardous Substance - Yes
Pennsylvania Hazardous Substance - Yes

CALIFORNIA PROPOSITION 65: None of the ingredients are listed as carcinogens.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Below you will find the hazard information that is required on the EPA pesticide label.

GENERAL COMMENTS: HAZARD INFO FOUND ON SODIUM DICHLOROISOCYANURIC ACID EPA LABEL:

Hazards to humans and domestic animals.

DANGER. Corrosive.

Causes irreversible eye damage.

May be fatal if inhaled. Do not breathe dust

Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin.

Strong oxidizing agent.

Toxic to fish and aquatic organisms.

16. OTHER INFORMATION

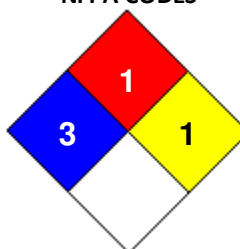
Date Revised: 01/03/2023

REVISION SUMMARY: This SDS replaces the 07/24/2020 SDS. Revised: **Section 1:** SDS No.

HMIS RATING

| | | |
|---------------------|---|----------|
| HEALTH | □ | 3 |
| FLAMMABILITY | □ | 1 |
| PHYSICAL HAZARD | □ | 1 |
| PERSONAL PROTECTION | □ | F |

NFPA CODES



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