

1. Product and Company Identification

Chemical name	Mineraluxe™ Hot Tub Sanitizer Brominating Granules
Type of product and use	Sanitization and shock treatment for spas and hot tubs.
Supplier	Mineraluxe™ c/o. Backyard Brands, Inc. 401 S. Enterprise Blvd. Lebanon, IN 46052 USA *1-866-875-0012 24 HR. EMERGENCY TELEPHONE NUMBERS Poison Control Center (Medical): (800) 420-9236 CANUTEC (Canadian Transportation): (613) 996 - 6666 CHEMTREC (US Transportation): (800) 424 – 9300

2. Hazards Identification

GHS classification	Ox. Sol. 2 H272, May intensify fire; oxidizer. Skin Corr. 1C, H314 Causes severe skin burns and eye damage Acute Tox. 4, H302 Harmful if swallowed STOT SE 3, H335 May cause respiratory irritation Aquatic Acute 1, H400 - Very toxic to aquatic life Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects
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Labels and other form of warning

Symbol(s)



Signal Word	DANGER
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Hazard statements	H272 - May intensify fire; oxidizer H314 - Causes severe skin burns and eye damage H302 - Harmful if swallowed H335 - May cause respiratory irritation H410 - Very toxic to aquatic life with long lasting effects EUH031 - Contact with acids liberates toxic gas
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Precautionary statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P220 - Keep/Store away from clothing/ combustible materials

P221 - Take any precaution to avoid mixing with combustibles/other chemicals

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

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

P370 + P378 - In case of fire: Use water for extinction

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P363 - Wash contaminated clothing before reuse

P310 - Immediately call a POISON CENTER or doctor/physician

P391 - Collect spillage

P405 - Store locked up

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

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Potential environmental effects Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 1. Special Hazard Warning: OXIDIZER. Class 2 Oxidizer.

3. Composition / Information on Ingredients

Components	CAS No.	Weight %
DICHLOROISOCYANURIC ACID, SODIUM SALT OF	2893-78-9	85
SODIUM BROMIDE	7647-15-6	15

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.
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	Causes severe eye damage.
- Skin contact	Harmful if absorbed through skin. Causes skin burns On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.
- Inhalation	Harmful if inhaled. Causes respiratory tract irritation
- Ingestion	Harmful if swallowed.
Note to physician	Probable mucosal damage may contraindicate the use of gastric lavage.
Medical conditions aggravated by exposure	Respiratory disorders Skin disorders

5. Fire - Fighting Measures

Suitable extinguishing media	Flood with large volumes of water.
Extinguishing media not to be used	ABC powder. Dry chemical.
Unusual fire and explosion hazards	Halogen containing gases. Carbon oxides.
Fire fighting procedure	In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate firefighting equipment including all firefighting wearing apparel after the incident. Additional advice: Nitrogen trichloride can be generated slowly by the reaction of

small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard. Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal. Bulging containers require extreme care. Contact the fire department.

6. Accidental Release Measures

Personal precautions

For small spills in a well-ventilated areas, 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 for Clean up

Using appropriate protective clothing and safety equipment, contain spilled Material. Do not add water to spilled material. Using clean dedicated Equipment, sweep and scoop all spilled material, contaminated soil, and other Contaminated material and place into clean, dry containers for disposal. Do Not close containers containing wet or damp material. They should be left open Disperse any hazardous gases that may form.

Environmental precautions

Do not flush into surface sewer system.

- **Soil** Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.
- **Water** This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately.
- **Air** Vapors may be suppressed by the use of water fog.

7. Handling And Storage

Handling

Contains a strong oxidizing agent. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid breathing vapors. Do not mix with other chemicals. Mix only with water. Never add water to this product. Always add product to large quantities of water. Use only clean and dry utensils. Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area. Flood with large volumes of water. Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco. Do not handle until all safety precautions have been read and understood.

Storage

Store in a dry, cool, well-ventilated area in the original container. Keep containers tightly closed when not in use. Keep away from heat, sparks and open flame. Keep out of reach of children. Keep away from animals.

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
SODIUM BROMIDE 7647-15-6	Not determined	Not determined

Ventilation requirements

Provide adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

- Respiratory protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

- Hand protection

Rubber gloves

- Eye protection

Safety glasses with side-shields

- Skin and body protection

Impervious body covering clothes, boots and neoprene apron

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 granules
Odor	Faint Halogen
Odor threshold	Not determined
pH	4.5 saturated aqueous solution
Melting point/range	230-250 °C (446-482°F)
Boiling point/range	Not applicable
Flash point	None
Evaporation rate (ether=1)	Not applicable under standard conditions
Flammability (solid, gas)	Not determined
Flammable/Explosion limits	Not determined
Vapor pressure	Not applicable under standard conditions
Vapor density	Not applicable under standard conditions
Density	0.90 - 0.96 g/cm ³
Solubility:	
- Solubility in water	25 g/100ml at 30 °C
- Solubility in other solvents	Not determined
Partition coefficient (n-octanol/water)	Not determined

Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
Viscosity	Not applicable

10. Stability And Reactivity

Reactivity	Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
Stability	Stable under normal conditions Do not package in paper or cardboard
Possibility of hazardous	Hazardous polymerisation will not occur
Conditions to avoid	Moisture/high humidity. Poor ventilation. High temperatures. Contamination
Materials to avoid	Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals
Hazardous decomposition	Halogen containing gases Carbon oxides

11. Toxicological Information

Note:	<i>Toxicological data have not been determined specifically for this product. The following data refer to Sodium dichloro-s-triazinetriene</i>
Likely routes of Exposure	Skin Inhalation Ingestion Eye Contact
Acute toxicity:	
- Rat Oral LD50	735 mg/kg
- Rabbit dermal LD50	>2000 mg/kg
- Eye Irritation (rabbit)	Severe irritant
- Dermal irritant (rabbit)	Severe irritant
Dermal sensitization	Not a sensitizer
Chronic toxicity	Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.
Mutagenicity	Not known or reported to be mutagenic
Carcinogenicity	Not classified by IARC, OSHA, EPA Not included in NTP 12 th Report on Carcinogens.

12. Ecological information

Note: *Toxicological data have not been determined specifically for this product.
The following data refer to Sodium dichloro-s-triazinetriene*

Aquatic toxicity :

- 96 Hour-LC50, Fish 0.22 mg/l (Rainbow trout)
0.28 mg/l (bluegill sunfish)
- 48 hour-LC50, *Daphnia magna* 0.2 mg/l

Avian toxicity:

- Oral LD50, Bobwhite quail 730 mg/kg
- Oral LD50, Mallard duck 3300 mg/kg
- Dietary LC50, Mallard duck >10,000 ppm
- Dietary LC50, Bobwhite quail >10,000 ppm

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential No data available

Mobility in soil No data

Germany, water endangering classes (WGK) 3

Note: Toxic to aquatic organisms.
Toxic to fish.
Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. Disposal Considerations

Waste disposal Dispose of waste material in compliance with all federal, state, and local regulations.
Contact with incompatible materials could cause a reaction or fire.
If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State Pesticide Agency.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.
Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.

Disposal of Packaging Do not reuse containers
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

14. Transportation Information

UN No.	1759
DOT	Proper shipping name: Corrosive Solid, n.o.s. (contains Sodium dichloro-s-triazinetriene) Class: 8 - Corrosives Packing Group: III
IMDG	Proper shipping name: Corrosive Solid, n.o.s. (contains Sodium dichloro-s-triazinetriene) Class: 8 - Corrosives Packing Group: III
ICAO/IATA	Proper shipping name: Corrosive Solid, n.o.s. (contains Sodium dichloro-s-triazinetriene) Class: 8 Packing group: III

15. Regulatory Information

USA	All ingredients are reported in the EPA TSCA Inventory
FIFRA information	EPA Reg. No. 69470-34 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. Following is the hazard information as required on the pesticide label: DANGER Corrosive Causes irreversible eye damage Causes skin burns Harmful if swallowed or absorbed through skin or inhaled. Strong oxidizing agent This pesticide is toxic to fish and aquatic organisms.
- SARA (311, 312)	This product is categorized as an immediate health hazard, and fire and reactivity physical hazard This product does not contain a chemical listed at or above de minimis concentrations (Sodium dichloro-s-triazinetriene)
- Massachusetts Right-to-Know Hazardous Substances list	Listed (Sodium dichloro-s-triazinetriene)
- New Jersey Right-to-Know Hazardous Substances list	Listed (Sodium dichloro-s-triazinetriene)
- Pennsylvania Right-to-Know Hazardous Substances list	Listed (Sodium dichloro-s-triazinetriene)
- Rhode Island Right-to-Know Hazardous Substances list	Listed (Sodium dichloro-s-triazinetriene)
- Workplace Classification	This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200) (Sodium dichloro-s-triazinetriene)
Canada	All ingredients are listed in DSL

-WHMIS hazard class	C oxidizing materials D1B Toxic material causing immediate and serious toxic effects D2B Toxic materials causing other toxic effects (Sodium dichloro-s-triazinetriene) D2A Very toxic material causing other toxic effects (Sodium bromide)
EU	All ingredients are reported in EINECS
Japan	All ingredients are listed.
Australia	All ingredients are listed in AICS
New Zealand Inventory	All ingredients are listed in NZIoC
China - China inventory	All ingredients are listed in IECSC
Korea	All the ingredients are listed KECI
Philippines	All ingredients are listed in PICCS

16. Other Information

COMMENTS: The contents and format of this MSDS are 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, Backyard Brands, Inc. 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 Backyard Brands, Inc. 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 MERCHANTABILITY, 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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