SAFETY DATA SHEET

1. Product and Company Identification

Product Name	**Mineraluxe™ Cube**
Product use	**Cleaning agent for hot tubs.**
Supplier	Mineraluxe c/o Backyard Brands Inc. BACKYARD BRANDS, INC • 401 S. Enterprise Blvd. Lebanon, IN 46052 USA • 1-866-875-0012
	24 HR. EMERGENCY TELEPHONE NUMBERS **Poison Control Center (Medical): (877) 800 - 5553** **CANUTEC (Canadian Transportation): (613) 996 - 6666** **CHEMTREC (US Transportation): (800) 424 – 9300**

2. Hazards Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White cube with green flecks

IMMEDIATE CONCERNS: CORROSIVE. Irritating to respiratory system. Keep locked up and out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CLASSIFICATION: Corrosive.

PHYSICAL APPEARANCE:
HUMAN HEALTH HAZARDS: Causes burns. Irritating to respiratory system.

PHYSICAL/CHEMICAL HAZARDS: Not classified as dangerous.

ENVIRONMENTAL HAZARDS: Not classified as dangerous.

OTHER INFORMATION: Keep locked up and out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium carbonate	497-19-8	20-50%
Disodium metasilicate	6834-92-0	10-25%
Aluminium potassium bis(sulphates) dodecahydrate	7784-24-9	10-20%

4. First Aid Measures

EFFECT AND SYMPTOMS:

INHALATION: Corrosive. May cause sore throat and coughing. May cause shortness of breath or lack of breath.
SKIN CONTACT: Corrosive. May cause redness, pain and burns (blisters).
EYE CONTACT: Corrosive. May cause redness and severe pains. Tears.
INGESTION: Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhea.

FIRST AID MEASURES:

EYES: If in eyes: Move victim into fresh air. Hold eye(s) open and rinse slowly and gently with lukewarm water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
SKIN: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water and soap before product dries up. Consult a poison control center or doctor in case burns or irritation occurs. Wash contaminated clothing before reuse.
INGESTION: If swallowed: 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.
INHALATION: If inhaled: Move person to fresh air. If person has stopped breathing, give artificial respiration, preferably mouth to mouth. Call poison control center or doctor for treatment advice.

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Carbon dioxide (CO_2). Foam. Dry chemical. Water fog.

SPECIAL EXPOSURE HAZARDS: None known. Non flammable product.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Not applicable.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Use adequate respiratory equipment in case of insufficient ventilation.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled and released material. See also section 8. Do not breathe dust.

ENVIRONMENTAL PRECAUTIONS: Avoid release of product into sewers, surface water and/or ground water. Large scale discharge causing a very high pH may impair the biological system in sewage plants.

METHODS FOR CLEANING UP: Collect spilled material in containers. Dispose at an authorized waste collection point. Wash away remainder with plenty of water and soap.

OTHER: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7. Handling and Storage

HANDLING: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes. Wear protective clothing.

STORAGE: Keep in a cool, dry, well-ventilated area (>35°C). Keep away from food, drink and animal feed.

RECOMMENDED PACKAGING: Keep only in the original container.

USE: Use only as directed. Do not mix with other products.

8. Exposure Controls / Personal Protection

ENGINEERING MEASURES: Comply with standard precautionary measures for working with chemicals.
HYGIENIC MEASURES: When using this product, do not eat, drink or smoke.
OCCUPATIONAL EXPOSURE LIMITS: Occupational exposure limits have not been established for this product.
PERSONAL PROTECTIVE EQUIPMENT:
The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.
BODY PROTECTION: Wear appropriate protective clothing, overalls or suit and similar boots. Suitable material: PVC. Indication of permeation breakthrough time: not known.
RESPIRATORY: Avoid inhaling vapours or dust. In case of insufficient ventilation, wear an approved NIOSH respirator.
HAND PROTECTION: Wear appropriate safety gloves when handling this product. Suitable material: PVC ± 0.5 mm. Indication of permeation breakthrough time: Not known.
EYES PROTECTION: Wear appropriate safety glasses with side shields.
OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash station.

9. Physical & Chemical Properties

PHYSICAL STATE: Solid
COLOUR: White with green speckles
ODOUR: Light fragrance, spring rain
pH: N/A
SOLUBILITY IN WATER: Soluble
PARTITION COEFFICIENT (n-octanol/water): Not known
FLASH POINT: Not applicable
AUTO IGNITION TEMPERATURE: Not applicable, does not contain combustible substances.
BOILING POINT/BOILING RANGE: Not applicable
EXPLOSION LIMITS (IN AIR): Not applicable
OXIDIZING PROPERTIES: Not applicable. Does not contain oxidizing substances.

DECOMPOSITION TEMPERATURE: Not applicable
VISCOSITY (20°C): Not applicable
VAPOUR PRESSURE (20°C): Not known.
VAPOUR DENSITY (20°C): Not applicable (air=1)
RELATIVE DENSITY (20°C): ±1 g/ml
EVAPORATION RATE: <1 (n-butyl acetate =1)

10. Chemical Stability & Reactivity Information

STABILITY: This product is stable under normal conditions.

CONDITIONS TO AVOID: See section 7.

INCOMPATIBLE MATERIALS: Keep away from acids.

HAZARDOUS DECOMPOSITION: Not known.

PRODUCTS REACTIVITY: No other hazardous reactions known.

11. Toxicological Information

No toxicological research has been carried out on this product.

INHALATION:

ACUTE TOXICITY: Calculated $LC_{50:}$ 5.267 mg/l. Ingredients of unknown toxicity: 50%. ATE: 1.5 mg/l.
CORROSION/IRRITATION: Corrosive. May cause sore throat and coughing. May cause pulmonary edema. Symptoms of pulmonary edema often manifest after several hours.
MUTAGENICITY: Not classified, due to lack of data.

SKIN CONTACT:

ACUTE TOXICITY: Calculated $LD_{50:}$ 2,446 mg/kg. Ingredients of unknown toxicity: 100%. ATE: 300 mg/kg.
CORROSION/IRRITATION: Corrosive. May cause redness, pain and burns (blisters).

EYE CONTACT:

CORROSION/IRRITATION: Corrosive. Risk of serious damage to eyes.

INGESTION:

ACUTE TOXICITY: May cause signs of intoxication and reduced consciousness after exposure to high concentrations. May cause feeling of sickness, malaise, shortness of breath and lack of breath. Calculated LD_{50}: 1638 mg/kg. Ingredients of unknown toxicity: 13%. ATE: 500 mg/kg.
CORROSION/IRRITATION: Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhea.
MUTAGENICITY: Not classified, due to lack of data.

TOXICOLOGICAL INFORMATION:

Chemical Name	Property		Test Animal	Method
Sodium Silicate	LD50 (oral) Skin Irritation	600 mg/kg Corrosive	Rat Rabbit	---------- OECD 404

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

13. Disposal Considerations

DISPOSAL METHOD: Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

PRODUCT DISPOSAL: Dispose of unused, uncontaminated product in accordance with all municipal, provincial or federal regulations.

14. Transport Information

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium silicate).
PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)
UN/NA NUMBER: 3262
PACKING GROUP: III

15. Regulatory Information

CANADA

WHMIS CLASS: E–Corrosive
DOMESTIC SUBSTANCE LIST (INVENTORY): Product ingredients are listed on DSL.

COMMENTS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by the Controlled Products Regulations.

16. Other Information

COMMENTS: The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), Hazardous Materials Identification System (HMIS), and Canada's Workplace Hazardous Information System (WHMIS) and Environmental Protection Agency (CEPA).

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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Prepared by	**Backyard Brands, 1-866-875-0012**