

1. Product and Company Identification

Product Name
CAS#

Mineraluxe Calcium Plus
10043-52-4 (Calcium Chloride)
Calcium Hardness Increaser for 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): (877) 800 - 5553
CANUTEC (Canadian Transportation): (613) 996 - 6666
CHEMTREC (US Transportation): (800) 424 – 9300

NFPA RATING:

FIRE	1
REACTIVITY	1

HMIS RATING:

HEALTH:	/	2
FLAMMABILITY:		0
PHYSICAL HAZARD:		1
PERSONAL PROTECTION:		B

LEGEND

HMIS/NFPA

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

2. Hazards Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Off-white, granular material

IMMEDIATE CONCERNS: CAUTION: May cause skin and eye irritation. May be harmful if swallowed. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses and rubber gloves when handling this product. May be irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Do not mix with other chemicals.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE: Skin Contact, Inhalation, Ingestion, Eye Contact.

EYES: Product may cause eye irritation. Dusts may cause severe irritation with corneal injury. Effects may be slow to heal. Hazard may be either mechanical abrasion or, more serious, burns from heat of hydrolysis and chloride irritation.

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, possibly leading to a burn. May cause more severe response if skin is damp, abraded (scratched or cut), or material is confined on skin.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be low, however, ingestion may cause gastrointestinal irritation or ulceration due to heat of hydrolysis.

INHALATION: Dust may cause irritation to upper respiratory tract. Avoid breathing dust or vapours.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: There are no known chronic hazards.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Calcium Chloride	10043-52-4	93-100

4. First Aid Measures

EYES: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Get medical attention immediately.

SKIN: If on skin: Rinse skin immediately with plenty of water for 15-20 minutes. If irritation persists, get medical attention.

INGESTION: If swallowed: Drink promptly large quantities of water. Do not induce vomiting. Avoid alcohol. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

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.

NOTES TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Oral ingestion may cause serum acidosis.

5. Fire Fighting Measures

FLASHPOINT AND METHOD: Not Applicable

GENERAL HAZARD: This product is not flammable or combustible.

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

HAZARDOUS COMBUSTION PRODUCTS: Product is not flammable or combustible

EXPLOSION HAZARDS: This product does not pose an immediate explosion hazard.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate firefighting equipment including all firefighting wearing apparel after the incident.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, and corrosive halogen fumes.

6. Accidental Release Measures

GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate protective clothing and safety equipment, contain spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place in clean dry plastic containers for disposal. Dispose of according to local, provincial and federal regulations.

7. Handling and Storage

GENERAL PROCEDURES: Avoid contact with eyes, skin or clothing. Avoid breathing dust.

HANDLING: Mix only with water. Never add water to product. Always add product to large quantities of water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.

STORAGE: Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

COMMENTS: When calcium chloride is being dissolved in water, heat is generated. Always add product to large quantities of water.

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Calcium chloride	TWA N/E ^[1]		N/E			

OSHA TABLE COMMENTS:

1. N/E = Not Established

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to minimize exposure to dust/vapours.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Wear goggles or safety glasses with side shields when handling this product.

SKIN: Wear rubber gloves when handling this product. Avoid contact with skin.

RESPIRATORY: Avoid inhaling vapours or dust. In case of insufficient ventilation, wear an approved NIOSH respirator.

WORK HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. Physical & Chemical Properties

PHYSICAL STATE: Solid

ODOUR: Odourless

APPEARANCE: Granular (pellets or crystals)

COLOUR: White or grey-white

pH: 8-9

VAPOR PRESSURE: < 0.005 mmHg at 20°C

VAPOR DENSITY: Not Applicable

BOILING POINT: > 815°C (1500°F)

FREEZING POINT: Not Applicable

MELTING POINT: ~ 772°C (1424°F)

SOLUBILITY IN WATER: Soluble, exothermic

SPECIFIC GRAVITY: 2.15 g/cc at 25°C

COEFF. OIL/WATER: Not Established

10. Chemical Stability & Reactivity Information

STABILITY: This product is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

CONDITIONS TO AVOID: High temperature. Poor ventilation. Contamination. Moisture/high humidity.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include toxic and corrosive halogen fumes.

INCOMPATIBLE MATERIALS: Avoid contact with water or metals of concentrated material. Other swimming pool/hot tub chemicals in their concentrated forms. Product is hygroscopic.

11. Toxicological Information

ACUTE

EYES: Data not available for this product.

SKIN ABSORPTION :> 5000 mg/kg in rabbits

ORAL LD₅₀: 1000 mg/kg of body weight in rats

INHALATION LC₅₀: Data not available for this product.

EYE EFFECTS: This product is an eye irritant.

NOTES: This product is expected to cause eye and skin irritation.

SKIN EFFECTS: This product is a skin irritant.

CHRONIC: No known chronic effects.

CARCINOGENICITY

IARC: This product is not listed as a carcinogen by IARC.

NTP: This product is not listed as a carcinogen by NTP.

OSHA: This product is not listed as a carcinogen by OSHA.

SENSITIZATION: This product is not expected to be a skin sensitizer.

REPRODUCTIVE EFFECTS: Product is not expected to be a reproductive hazard.

TERATOGENIC EFFECTS: No data available for this product.

MUTAGENICITY: This product is not mutagenic.

SYNERGISTIC MATERIALS: None known.

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds. The LCS0/96-hour values for fish are over 100 mg/L).

13. Disposal Considerations

DISPOSAL METHOD: Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.

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

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. Transport Information

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated as a DOT Hazardous Material

PRIMARY HAZARD CLASS/DIVISION: Not listed

UN/NA NUMBER: Not listed

PACKING GROUP: Not listed

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Not regulated as hazardous material under TDG

PRIMARY HAZARD CLASS/DIVISION: Not listed

UN/NA NUMBER: Not listed

PACKING GROUP: Not listed

15. Regulatory Information

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES **CHRONIC:** NO

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.

TSCA STATUS: This product or its components are listed on the TSCA Inventory.

OSHA HAZARD COMM. RULE: Product is hazardous by definition of the Hazardous Communication Standard.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is not a registered pesticide.

CANADA

WHMIS CLASS: D2B –Eye and skin irritant

DOMESTIC SUBSTANCE LIST (INVENTORY): Product ingredients are listed on DSL.

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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