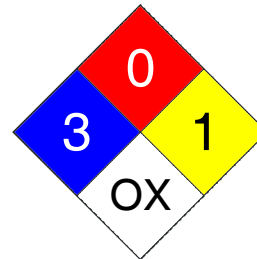


1. Product and Company Identification

Product Name Filter-Mate Chlorine Pellets
CAS # Mixture
Product use Water treatment
Manufacturer Iron Out dba Summit Brands
 7201 Engle Road
 Fort Wayne, IN 46804-5875 US
 Phone: 260-483-2519
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 3
Flammability	0
Physical Hazard	1
Personal Protection	B



2. Hazards Identification

Emergency overview DANGER -- CORROSIVE
Oxidizing material.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes chemical burns. May cause blindness.

Skin Causes chemical burns. Harmful contact may not cause immediate pain.

Inhalation Dust may cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Calcium hypochlorite	7778-54-3	40 - 70
Limestone	1317-65-3	15 - 40

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Brush away excess of dry material. Immediately flush with cool water for 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing well before reuse or discard.

Inhalation Move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria. Contact with combustible material may cause fire.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Container may explode in heat of fire.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Chlorine. Decomposition releases oxygen which may intensify fire.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift.
Methods for cleaning up	Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Avoid breathing dusts from this material. Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage	Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Calcium hypochlorite	ACGIH-TLV TWA: 10 mg/m ³ OSHA-PEL Not established
Limestone	ACGIH-TLV TWA: 5 mg/m ³ OSHA-PEL TWA: 15 mg/m ³
Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye / face protection	Chemical splash goggles.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection	As required by employer code.
Respiratory protection	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. If ventilation is not adequate use dust mask or gas respirators with dust filters.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Pellets
Color	White
Form	Pellets
Odor	Strong Chlorine
Odor threshold	Not available
Physical state	Solid
pH	11.5 (5% Solution)
Melting point	Not available
Freezing point	Not available
Boiling point	Not applicable
Flash point	None
Evaporation rate	Not applicable
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	2 - 2.2 (H ₂ O = 1)
Octanol/water coefficient	Not available
Solubility (H₂O)	Appreciable
Auto-ignition temperature	Not applicable
Viscosity	Not applicable
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable, however, may decompose if heated.
Conditions to avoid	Do not mix with anything but water. Do not mix with acids or ammonia, will cause hazardous vapours. Contact with organic materials and heat may cause fire.
Incompatible materials	Reducing agents. Organics. Combustible materials. Acids. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxygen. Chlorine when heated to decomposition.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Calcium hypochlorite	Not available
Limestone	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Calcium hypochlorite	850 mg/kg rat
Limestone	6450 mg/kg rat

Effects of acute exposure

Eye	Causes chemical burns. May cause blindness.
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Skin	Causes chemical burns. Harmful contact may not cause immediate pain.
Inhalation	Dust may cause respiratory tract irritation or chemical burns.
Ingestion	Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.
Sensitization	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Chronic effects	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Carcinogenicity	See below.
IARC - Group 3 (Not Classifiable)	
Calcium hypochlorite	7778-54-3 Monograph 52 [1991] (listed under Hypochlorite salts)
Mutagenicity	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Reproductive effects	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Teratogenicity	Not classified or listed by IARC, NTP, OSHA and ACGIH.

12. Ecological Information

Ecotoxicity	See below
Ecotoxicity - Freshwater Fish Species Data	
Calcium hypochlorite	7778-54-3 24 Hr LC50 Morone saxatilis: 0.5 mg/L [static] (70% hypochlorite); 96 Hr LC50 Lepomis macrochirus: 0.049-0.16 mg/L [static]
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name	Calcium hypochlorite, hydrated
Hazard class	5.1
UN number	UN2880
Packing group	II
Additional information:	
Special provisions	165, 166, IB8, IP2, IP4, IP13, W9
Packaging exceptions	152
ERG number	140



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	Calcium Hypochlorite, Hydrated
Hazard class	5.1
UN number	UN2880
Packing group	II



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Calcium hypochlorite 7778-54-3 10 Lb final RQ; 4.54 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Calcium hypochlorite 7778-54-3 Present

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Calcium hypochlorite: 10.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

WHMIS status Controlled

WHMIS classification Class C - Oxidizing Material, Class E - Corrosive Material

WHMIS labeling



State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Calcium hypochlorite 7778-54-3 Present

U.S. - Louisiana - Reportable Quantity List for Pollutants

Calcium hypochlorite 7778-54-3 10 Lb final RQ; 4.54 kg final RQ

U.S. - Massachusetts - Right To Know List

Calcium hypochlorite 7778-54-3 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Calcium hypochlorite 7778-54-3 sn 0323

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Calcium hypochlorite 7778-54-3 10 Lb RQ (air); 10 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

Calcium hypochlorite 7778-54-3 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Calcium hypochlorite 7778-54-3 Flammable

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

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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