

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification	
Product identifier	
Product name	Silver Mineral Formula
Chemical name	Calcium carbonate with silver chloride
Synonyms; trade names	Instant FROG®
EPA Registration Number	53735-11
Recommended use of the che	emical and restrictions on use
Application	Pool water conditioner
Uses advised against	Use only for intended applications. Not intended for direct application to humans or animals.
Details of the supplier of the s	afety data sheet
Supplier	King Technology, Inc. 6000 Clearwater Dr Minnetonka, MN 55343 United States 1+ (952) 933-6118 sdsinfo@kingtechnology.com
Emergency telephone numbe	r
Emergency telephone	CHEMTREC 800-424-9300 (24 hours)
Emergency telephone 2. Hazard(s) identification	CHEMTREC 800-424-9300 (24 hours)
2. Hazard(s) identification	
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Precautionary statements	P273 Avoid release to the environment. P391 Collect spillage.
	P501 Dispose of contents/ container in accordance with national regulations.
Others I	

## Other hazards

Other

No additional hazards known.

«46»% of the mixture consists of ingredient(s) of unknown acute toxicity.

3. Composition/information on ingredients		
Mixtures		
Calcium carbonate	> 98%	
CAS number: 471-34-1		
Classification Not Classified		
Silver chloride	<1%	
CAS number: 7783-90-6		
M factor (Acute) = 1000	M factor (Chronic) = 100	
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
The full text for all hazard sta	tements is displayed in Section 16.	
Composition comments	The exact percentage/concentration is withheld as a trade secret in accordance with 29 CFR 1910.1200.	
4. First-aid measures		
Description of first aid measu	res	
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.	
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.	
Skin Contact	Rinse with water.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.	
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.	
Most important symptoms an	d effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	

Ingestion	No specific symptoms known.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.
Indication of immediate medica	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the	he substance or mixture
Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.
6. Accidental release measure	IS
Personal precautions, protectiv	ve equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.
Environmental precautions	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
Methods and material for conta	ainment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
Conditions for safe storage, in	cluding any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Miscellaneous hazardous material storage.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.
8. Exposure controls/Persona	al protection

#### **Control parameters**

## Occupational exposure limits

Calcium carbonate (CAS 471-34-1)

OSHA Permissible Exposure Limit (PEL): TWA 15 mg/m3 (total dust) OSHA Permissible Exposure Limit (PEL): TWA 5 mg/m3 (respirable dust) NIOSH Recommended exposure limit (REL): TWA 10 mg/m3 (total dust) NIOSH Recommended exposure limit (REL): TWA 5 mg/m3 (respirable dust)

### Silver chloride (CAS 7783-90-6)

OSHA Permissible Exposure Limit (PEL): TWA 0.01 mg/m3 (Silver soluble compounds, as Ag) NIOSH Immediately Dangerous to Life or Health (IDLH): TWA 10 mg/m3 (Silver soluble compounds, as Ag) NIOSH Recommended Exposure Limit (REL): TWA 0.01 mg/m3 (Silver soluble compounds, as Ag) ACGIH Threshold Limit Value (TLV): 0.1 mg/m3 (Silver soluble compounds, as Ag)

#### Exposure controls

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	No specific eye protection required during normal use.
Hand protection	No specific hand protection recommended. Avoid contact with skin.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

# Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Information on basic physical	and chemical properties
Appearance	Granules.
Color	White.
Odor	Odorless.
Odor threshold	No information available.
рН	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
10. Stability and reactivity	
Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
11. Toxicological information	
Information on toxicological eff	ects
Acute toxicity - oral Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD₅o)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitization Respiratory sensitization	Based on available data the classification criteria are not met.
Skin sensitization Skin sensitization	Based on available data the classification criteria are not met.
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
NTP carcinogenicity	None of the ingredients are listed.
OSHA Carcinogenicity	None of the ingredients are listed.
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - STOT - repeated exposure	repeated exposure Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Aspiration hazard	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin Contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
12. Ecological information	
Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Toxicity	Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
Persistence and degradability	
Persistence and degradability	The degradability of the product is not known.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	No information available.
Mobility in soil	
Mobility	No data available.
Other adverse effects	
Other adverse effects	
	None known.
13. Disposal considerations	None known.
	None known.
13. Disposal considerations	None known. The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
13. Disposal considerations Waste treatment methods	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product
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13. Disposal considerations         Waste treatment methods         General information         Disposal methods	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is
13. Disposal considerations         Waste treatment methods         General information         Disposal methods         14. Transport information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

UN No. (DOT)	Not applicable.
UN proper shipping name	
Proper shipping name (DOT)	Not applicable.
Transport hazard class(es)	
DOT transport labels	
No transport warning sign requ	Jired.
Packing group	
DOT packing group	Not applicable.
Environmental hazards	
Environmentally Hazardous Su	ubstance
No.	
Special precautions for user	
DOT reportable quantity	Not applicable.
DOT TIH Zone	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. Regulatory information	
United States FIFRA -	
Pesticide Labeling	This product is a US EPA FIFRA registered pesticide (EPA Reg. No.: 53735-11) and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required for an OHSA GHS SDS. The following is the hazard information as required on the FIFRA label:
Signal Word	CAUTION
US Federal Regulations	
	Hazardous Substances Tier II Threshold Planning Quantities
<b>CERCLA/Superfund, Hazardo</b> The following ingredients are I Silver compounds No RQ Assigned	ous Substances/Reportable Quantities (EPA) listed:
SARA Extremely Hazardous S Not applicable.	Substances EPCRA Reportable Quantities
SARA 313 Emission Reporting	g
Silver compounds	9
Silver compounds <i>Silver chloride</i> None of the ingredients are lis	sted or exempt.
Silver compounds Silver chloride	sted or exempt.

## FDA - Essential Chemical

Not applicable.

### **FDA - Precursor Chemical** Not applicable.

# SARA (311/312) Hazard Categories Not applicable.

## **OSHA Highly Hazardous Chemicals** Not applicable.

US Clean Water Act - Section The following ingredients are listed: Silver compounds 307(a)(1) Toxic Pollutants

## **US State Regulations**

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed.

# California Air Toxics "Hot Spots" (A-I)

Not applicable.

### California Air Toxics "Hot Spots" (A-II) Not applicable.

## California Directors List of Hazardous Substances

The following ingredients are listed: Silver compounds

# California Hazardous Waste The following ingredients are listed: Silver compounds Control Law

Massachusetts "Right To Know" List Not applicable.

# Rhode Island "Right To Know" List Not applicable.

## Minnesota "Right To Know" List Not applicable.

## New Jersey "Right To Know" List Silver compounds

## Pennsylvania "Right To Know" List Silver compounds

# Colorado Hazardous Waste The following ingredients are listed: Silver compounds Regulation Appendix VIII Hazardous Waste Constituents The following ingredients are listed: Silver compounds Louisiana Reportable Quantity The following ingredients are listed: Silver compounds

Louisiana Reportable QuantityThe following ingredients are listed: Silver compoundsList for PollutantsNo RQ Assigned

New Jersey Discharge TaxThe following ingredients are listed: Silver compoundsList of Hazardous Substances

Massachusetts Oil andThe followingHazardous Materials ListRQ: (50 lbs)

The following ingredients are listed: Silver compounds RO: (50 lbs)

## Inventories

**EU - EINECS/ELINCS** Some of the ingredients are listed or exempt.

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA All the ingredients are listed or exempt.

Calcium carbonate

US - TSCA 12(b) Export Notification Not applicable.

Australia - AICS All the ingredients are listed or exempt.

Japan - ENCS All the ingredients are listed or exempt.

Korea - KECI All the ingredients are listed or exempt.

China - IECSC All the ingredients are listed or exempt.

Philippines - PICCS All the ingredients are listed or exempt.

**New Zealand - NZIOC** All the ingredients are listed or exempt.

Taiwan - TCSI All the ingredients are listed or exempt.

#### 16. Other information

Abbreviations and acronyms used in the safety data sheet	TDG: The transport of dangerous goods act
	<ul> <li>IATA: International air transport association.</li> <li>ICAO: Technical instructions for the safe transport of dangerous goods by air.</li> <li>IMDG: International maritime dangerous goods.</li> <li>CAS: Chemical abstracts service.</li> <li>ATE: Acute toxicity estimate.</li> <li>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</li> <li>EC<sub>50</sub>: 50% of maximal effective concentration.</li> <li>PBT: Persistent, bioaccumulative and toxic substance.</li> <li>vPvB: Very persistent and very bioaccumulative.</li> </ul>
Classification abbreviations and acronyms	Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Revision date	10/24/2022
Revision	09
SDS No.	4830
Hazard statements in full	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

The information provided on the SDS is correct to the best of our knowledge, information, and belief at the date of this publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.