

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 11.18.2014

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Calcium Chloride,

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Calcium Chloride,

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25223

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc
9 Barnhart Drive, Hanover, PA 17331
(717) 632-1291

Supplier Details:

Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064
(724)517-1954

Emergency telephone number:

Fisher Science Education
Emergency Telephone No.: 800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture:



Irritant

Eye irritation, category 2A

Eye Irritation 2.

Signal word: Warning

Hazard statements:

Causes serious eye irritation.

Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection.

Wash ... thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

If eye irritation persists get medical advice/attention.

Other Non-GHS Classification:

WHMIS

D2B



NFPA/HMIS

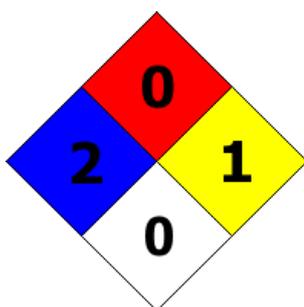
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NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	1
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:

CAS 10043-52-4	Calcium Chloride,Anh,ACS,2.5KG	100 %
Percentages are by weight		

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Move exposed person to fresh air; if breathing is difficult, give oxygen. Loosen clothing and place exposed individual in a comfortable position. Seek immediate medical attention.

After skin contact:

Wash hands and exposed skin with soap and plenty of water. Rinse or flush skin/hair gently with water for at least 20 minutes. Seek medical attention if irritation persists or if concerned.

After eye contact:

Rinse or flush eye gently with water for at least 15-20 minutes, lifting upper and lower lids. Seek medical attention if irritation persists or if concerned. Protect unexposed eye.

After swallowing:

Rinse mouth with water (never give anything by mouth to an unconscious person). Do not induce vomiting. Seek medical attention if irritation persists or if concerned.

Most important symptoms and effects, both acute and delayed:

Irritation- all routes of exposure. Shortness of breath. Headache. Nausea, vomiting, diarrhea.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

Nonflammable. Use appropriate means to extinguish surrounding fire.

Unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Hydrogen chloride gas, Calcium oxide. Not considered to be a fire or explosion hazard. Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

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Protective equipment:

Use normal procedures. Use protective clothing. Use NIOSH approved breathing equipment.

Additional information (precautions): None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Environmental precautions:

Should not be released into the environment.

Methods and material for containment and cleaning up:

Sweep up spill and containerize for disposal. Use adequate ventilation. Always obey local regulations.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:

Wash hands after handling. Avoid contact with skin, eyes and clothes. Do not ingest or inhale. Use adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry, well-ventilated area. Protect from freezing and physical damage. Keep product from moisture.

SECTION 8: Exposure controls/personal protection



Control Parameters:

10043-52-4, Nuisance dust, ACGIH TLV TWA:10mg/m3 (inhalable particles).
10043-52-4, Nuisance dust, OSHA PEL TWA: 15 mg/m3 (total dust).

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Not required under normal conditions of use with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Chemical resistant gloves. Wear protective clothing. Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves.

Eye protection:

Safety glasses or goggles.

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General hygienic measures: Perform routine housekeeping. Wash hands after handling. Avoid contact with skin, eyes and clothes. Do not ingest or inhale. Use adequate ventilation. Before rewearing, wash contaminated clothing.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Beige solid	Explosion limit lower:	Not determined
		Explosion limit upper:	Not determined
Odor:	Odorless	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	8-10 (100g/L aq.sol.)	Relative density:	Not determined
Melting/Freezing point:	782C	Solubilities:	Soluble.
Boiling point/Boiling range:	>1600C @ 760 mmHg	Partition coefficient (n-octanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined Additional property: Hygroscopic (absorbs moisture from the air) Specific Gravity: Approx 2.15		

SECTION 10: Stability and reactivity

Reactivity: None

Chemical stability: None

Possible hazardous reactions: None

Conditions to avoid: None

Incompatible materials:

Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium chloride is attacked by bromine trifluoride. Strong oxidizers, metals.

Hazardous decomposition products:

Chlorine, hydrogen chloride gas.

SECTION 11: Toxicological information

Acute Toxicity:

Oral:

10043-52-4 LD50 oral-rat: 1000 mg/kg

Chronic Toxicity: No additional information.

Corrosion Irritation:

Dermal:

Rabbit: No irritation 10043-52-4

Ocular:

Rabbit: Moderate irritation 10043-52-4

Section 2 Classified as eye irritant

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Sensitization: No additional information.

Numerical Measures: No additional information.

Carcinogenicity: No additional information.

Mutagenicity:

Mutagenic effects have occurred in experimental animals.

Reproductive Toxicity: No additional information.

SECTION 12: Ecological information

Ecotoxicity:

10043-52-4: Fish LC50 - Lepomis macrochirus - 10,650 mg/l - 96 h

10043-52-4: invertebrates EC50 - Daphnia magna (Water flea) - 2,400 mg/l - 48 h

Persistence and degradability: No additional information.

Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

SECTION 13: Disposal considerations

Waste disposal recommendations:

None

SECTION 14: Transport information

US DOT

UN Number:

ADR, ADN, DOT, IMDG, IATA

Not Regulated

Limited Quantity Exception:

None

Bulk:

RQ (if applicable): None

Proper shipping Name: Not Regulated.

Hazard Class: None

Packing Group: Not Regulated.

Marine Pollutant (if applicable): No additional information.

Comments: None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Not Regulated.

Hazard Class: None

Packing Group: Not Regulated.

Marine Pollutant (if applicable): No additional information.

Comments: None

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical listings):

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None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

10043-52-4 Calcium Chloride,Anh,ACS,2.5KG.

SECTION 16: Other information

GHS Full Text Phrases: None

Abbreviations and Acronyms: None

Effective date: 11.18.2014

Last updated: 06.19.2015