Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

1 Identification
· Product identifier
 Trade name: <u>Calcium Chloride,Dihydrate</u> Product code: CC1045 CAS Number: 10035-04-8
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture Eye Irrit. 2A H319 Causes serious eye irritation.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:
GHS07
 Signal word: Warning Hazard statements: H319 Causes serious eye irritation. Precautionary statements: P264 Wash thoroughly after handling. P280 Wear eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
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· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· CAS No. Description

10035-04-8 Calcium Chloride, Dihydrate, ACS

4 First-aid measures

[•] Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Brush off loose particles from skin.

Wash with soap and water.

Seek medical treatment in case of complaints.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Causes eye irritation.

Causes mild skin irritation.

May cause gastro-intestinal irritation if ingested.

Nausea in case of ingestion.

Danger: May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

[•] Extinguishing media

• Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

• For safety reasons unsuitable extinguishing agents: No relevant information available.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

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Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Environmental precautions
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Methods and material for containment and cleaning up
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
7 Handling and storage
· Handling
· Precautions for safe handling:
Use only in well ventilated areas.

Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

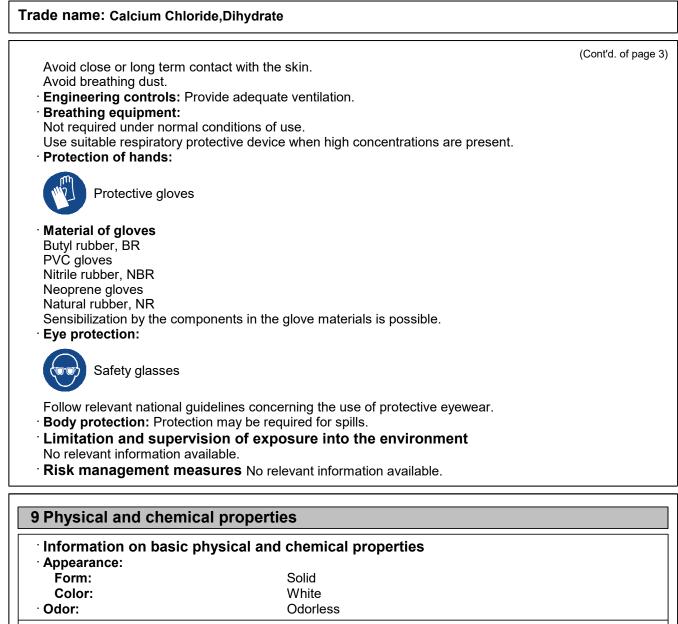
Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

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 pH-value: Melting point/Melting range: Boiling point/Boiling range: 	Not applicable. 436 °C (816.8 °F) 450-475 °C (842-823 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
	(0

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Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	1.5 g/cm³ (12.52 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
	Insoluble.	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with acids.

· Conditions to avoid Excessive heat.

· Incompatible materials Acids.

· Hazardous decomposition products

Under fire conditions only:

Chlorine compounds

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

Calcium Chloride, Dihydrate, ACS

Oral LD50 2100-2500 mg/kg (Acute Toxicity Estimate)

· Primary irritant effect:

· On the skin:

Causes mild skin irritation.

Based on available data, the classification criteria are not met.

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• On the eye: Irritating effect.	
• Sensitization: Based on available data, the classification criteria are not met.	
IARC (International Agency for Research on Cancer):	
Substance is not listed.	
NTP (National Toxicology Program):	
Substance is not listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
Substance is not listed.	
Probable route(s) of exposure:	
Ingestion.	
Inhalation.	
Eye contact.	
Skin contact.	
Acute effects (acute toxicity, irritation and corrosivity):	
Causes mild skin irritation.	
Causes serious eye irritation.	
May be harmful if swallowed.	
Repeated dose toxicity: No relevant information available.	
Germ cell mutagenicity: Based on available data, the classification criteria are not met.	
• Carcinogenicity: Based on available data, the classification criteria are not met.	
• Reproductive toxicity: Based on available data, the classification criteria are not met.	
• STOT-single exposure: Based on available data, the classification criteria are not met.	
STOT-repeated exposure: Based on available data, the classification criteria are not me	et.

• Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- [·] Toxicity
- · Aquatic toxicity No relevant information available.
- **Persistence and degradability** No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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[·] Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA Class	Not regulated.	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)
 SARA
 Section 302 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause developmental toxicity for females:

Substance is not listed.

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Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

• EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com