## Calcium Chloride, Dihydrate



## Section 1

Section 2

## **Product Description**

**Product Name: Recommended Use:** Synonyms: Distributor:

Calcium Chloride, Dihydrate Science education applications Calcosan Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

**Chemical Information: Chemtrec:** 

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# WARNING



Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Acute Toxicity - Oral Category 4

#### Section 3

Section 4

## **Composition / Information on Ingredients**

CAS #

10035-04-8

%

100

Chemical Name	
Calcium Chlorida	Dihydra

Calcium Chloride, Dihydrate

#### First Aid Measures

#### **Emergency and First Aid Procedures**

Inhalation: Eyes:	In case of accident by inhalation: remove casualty to fresh air and keep at rest. 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.		
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.		
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
Section 5	Firefighting Procedures		
Extinguishing Media	Use dry chemical CO2 or appropriate foam		

Section 6	Spill or Leak Procedures
Fire and/or Explosion Hazards: Hazardous Combustion Products:	Fire or excessive heat may produce hazardous decomposition products. Hydrogen chloride
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.

## Spill of Leak Procedures

Steps to Take in Case Material Is **Released or Spilled:** 

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid dusting. Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

#### Section 7

## Handling and Storage

Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Wear protective

Handling:

gloves/protective clothing/eye protection/face protection. Readily absorbs moisture from air. Keep container tightly closed in a cool, well-ventilated place.

Storage:

Material is hygroscopic (absorbs moisture) and deliguescent (absorbs moisture to become solution). Green - general chemical storage Storage Code:

Section 8	Protection I	nformation		
	<u>ACGIH</u>		OSHA PEL	
<u>Chemical Name</u> Calcium Chloride, Dihydrate	( <b>TWA)</b> N/A	(STEL) N/A	(TWA) N/A	(STEL) N/A
Control Parameters				
Engineering Measures:	No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.			
Personal Protective Equipment (PPE): Respiratory Protection:	Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.			
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
Gloves:	Butyl rubber, Neoprene	e, Nitrile		

## Section 9

Physical Data

Formula: CaCl2\*2H2O Molecular Weight: 147.02 g/mol Appearance: White Solid Odor: None Odor Threshold: No data available **pH:** 5.0 - 8 @ 147 g/L, 20°C Melting Point: 176 C Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1.85 Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0%

## Section 10

Reactivity: Chemical Stability: Conditions to Avoid:

**Incompatible Materials:** Hazardous Decomposition Products: Hazardous Polymerization:

Mildly reactive - See below Stable under normal conditions. Exposure to moisture Reaction with water is exothermic. Moisture (material is deliquescent).

Reactivity Data

# Section 11

## **Toxicity Data**

Routes of Entry			
Symptoms (Acute):			
Delayed Effects:			

Inhalation, ingestion, eye or skin contact. Bradycardia, Hypercalcemia (nausea, vomiting, pain, muscle twitches) No data available

Acute Toxicity: Chemical Name Calcium Chloride, Dihydr	ate 10	<b>CAS Number</b> 0035-04-8	<b>Oral LD5</b> Oral LD50 Ra 1384 mg/kg		al LD50 mined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Calcium Chloride, Dihydr	ate 10	<b>CAS Number</b> 0035-04-8	IARC Not listed	N Not listed	TP	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.					
Section 12		E	cological D	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	Mobility:This material is expected to have very high mobility in soil. It does not absorb to most soil types.Persistence:Dissolved into waterBioaccumulation:Bioconcentration is not expected to occur.Degradability:Does not biodegrade readily.					
<b>Chemical Name</b> Calcium Chloride, Dihydr	-	<b>AS Number</b> 0035-04-8	Eco Toxicity			
Section 13		Disp	osal Inforn	nation		
Disposal Methods:Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.Waste Disposal Code(s):Not Determined						
Section 14		Tran	sport Infori	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.						
Section 15 Regulatory Information						
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	e § 304 RQ	CERCLA RQ	§ 302 TPQ	2 CAA 112(2) TQ
Calcium Chloride, Dihydr	ate 10035-04-8	No	No	No	No	No
Section 16		Addit	ional Infor	nation		

Se	ect	101	11	6

#### Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health