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

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Contains Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Calcium Chloride, Dihydrate	10035-04-8	100

Section 4

First Aid Measures

Emergency and Fire						
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.					
Eyes:	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.Fire Fighting Methods and Protection:Firefighters should wear full protective equipment and NIOSH approved self-contained
breathing apparatus.Fire and/or Explosion Hazards:Fire or excessive heat may produce hazardous decomposition products.

Calcium Chloride, Dihydrate

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Hazardous Comb	oustion Products:	s: Hydrogen chloride					
Section 6		Spill or Leak	Procedures				
Steps to Take in Case Material Is Released or Spilled: equinate circ are spi Pre to o rec		equipment recommendations needs must be evaluated ba sircumstances created by the area in which the spill occurr spill. Never exceed any occu Prevent the spread of any sp o do so. Wear complete and ecommendation of Section	posure to the spilled material may be severely irritating or toxic. Follow personal protective uipment recommendations found in Section 8 of this SDS. Personal protective equipment eds must be evaluated based on information provided on this sheet and the special cumstances created by the spill including; the material spilled, the quantity of the spill, the ea in which the spill occurred, and the expertise of employees in the area responding to the ill. Never exceed any occupational exposure limits. Avoid dusting. event the spread of any spill to minimize harm to human health and the environment if safe do so. Wear complete and proper personal protective equipment following the commendation of Section 8 at a minimum. Dike with suitable absorbent material like anulated clay. Gather and store in a sealed container pending a waste disposal evaluation.				
Section 7		Handling an	d Storage				
Handling:		er handling. Do no eat, drin			tective		
Storage:	gloves/protective clothing/eye protection/face protection. Readily absorbs moisture from air. Keep container tightly closed in a cool, well-ventilated place. Material is hygroscopic (absorbs moisture) and deliquescent (absorbs moisture to become solution).						
Storage Code:	Green - general che		deliquescent (absorbs	moisture to become sol	ulion).		
Section 8		Protection In	nformation				
<u>Chemical Name</u> Calcium Chloride,	Dihydrate	ACGI (TWA) N/A	<u>H</u> (STEL) N/A	<u>(TWA)</u> N/A	<u>PEL</u> (STEL) N/A		
Calcium Chloride, Control Parameter Engineering Meas	sures:	(TWA) N/A No exposure limits exist or other engineering cor	(STEL) N/A for the constituents of	(TWA)	(STEL) N/A exhaust ventilation		
Calcium Chloride, Control Parameter Engineering Meas	sures: ive Equipment (PPE):	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn	(STEL) N/A for the constituents of ntrols to minimize expo sh, safety shower. n required under norm nptoms of overexposu	(TWA) N/A f this product. Use local of	(STEL) N/A exhaust ventilation rator comfort. vvide general room		
Calcium Chloride, Control Parameter Engineering Meas Personal Protecti	rs sures: ive Equipment (PPE): ection:	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn respirator is not normall None required where ac	(STEL) N/A for the constituents of htrols to minimize expo sh, safety shower. n required under norm nptoms of overexposu y required. lequate ventilation is p	(TWA) N/A f this product. Use local of psures and maintain ope al conditions of use. Pro are occur as explained S provided. If airborne cond	(STEL) N/A exhaust ventilation arator comfort. ovide general room ection 11. A centrations are		
Calcium Chloride, Control Parameter Engineering Meas Personal Protecti Respiratory Prote	rs sures: ive Equipment (PPE): ection:	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn respirator is not normally None required where ac above the applicable ex Wear chemical splash g	(STEL) N/A for the constituents of htrols to minimize expo sh, safety shower. n required under norm nptoms of overexposu y required. lequate ventilation is p posure limits, use NIO	(TWA) N/A f this product. Use local of osures and maintain ope al conditions of use. Pro are occur as explained S	(STEL) N/A exhaust ventilation arator comfort. ovide general room ection 11. A centrations are spiratory protection.		
Calcium Chloride, Control Parameter Engineering Meas Personal Protecti Respiratory Protecti Respirator Type(s	rs sures: ive Equipment (PPE): ection:	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn respirator is not normall None required where ac above the applicable ex Wear chemical splash g available. Avoid skin contact by we equipment depending u and replace at regular ir other exposed areas wit work.	(STEL) N/A for the constituents of htrols to minimize expo sh, safety shower. In required under norm nptoms of overexposu y required. lequate ventilation is p posure limits, use NIO oggles when handling earing chemically resis oon conditions of use. htervals. Clean protect h mild soap and water	(TWA) N/A f this product. Use local of psures and maintain ope al conditions of use. Pro are occur as explained S provided. If airborne cond SH/MSHA approved res	(STEL) N/A exhaust ventilation rator comfort. wide general room ection 11. A centrations are spiratory protection. ye wash station and other protective nical break-through Wash hands and		
Calcium Chloride, Control Parameter Engineering Meas Personal Protecti Respiratory Prote Respirator Type(s Eye Protection: Skin Protection: Gloves:	rs sures: ive Equipment (PPE): ection:	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn respirator is not normall None required where ac above the applicable ex Wear chemical splash g available. Avoid skin contact by we equipment depending u and replace at regular ir other exposed areas wit work. Butyl rubber, Neoprene,	(STEL) N/A for the constituents of atrols to minimize expo sh, safety shower. In required under norm inptoms of overexposu y required. lequate ventilation is p posure limits, use NIO oggles when handling earing chemically resis oon conditions of use. atervals. Clean protect h mild soap and water Nitrile	(TWA) N/A f this product. Use local of posures and maintain ope al conditions of use. Pro are occur as explained S provided. If airborne cond SH/MSHA approved res this product. Have an er stant gloves, an apron ar Inspect gloves for chem ive equipment regularly.	(STEL) N/A exhaust ventilation rator comfort. wide general room ection 11. A centrations are spiratory protection. ye wash station and other protective nical break-through Wash hands and		
Calcium Chloride, Control Parameter Engineering Meas Personal Protecti Respiratory Prote Respirator Type(s Eye Protection: Skin Protection:	rs sures: ive Equipment (PPE): ection:	(TWA) N/A No exposure limits exist or other engineering cor Lab coat, apron, eye wa No respiratory protection exhaust ventilation if syn respirator is not normall None required where ac above the applicable ex Wear chemical splash g available. Avoid skin contact by we equipment depending u and replace at regular ir other exposed areas wit work.	(STEL) N/A for the constituents of atrols to minimize expo sh, safety shower. In required under norm inptoms of overexposu y required. lequate ventilation is p posure limits, use NIO oggles when handling earing chemically resis oon conditions of use. atervals. Clean protect h mild soap and water Nitrile	(TWA) N/A f this product. Use local of posures and maintain ope al conditions of use. Pro are occur as explained S provided. If airborne cond SH/MSHA approved res this product. Have an er stant gloves, an apron ar Inspect gloves for chem ive equipment regularly.	(STEL) N/A exhaust ventilation rator comfort. wide general room ection 11. A centrations are spiratory protection. ye wash station and other protective nical break-through Wash hands and		

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:

Reactivity Data

Mildly reactive - See below Stable under normal conditions.

	Safety Da	ata Sheet			
Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:	Exposure to moisture Reaction with water is exothermic. Moisture (material is deliquescent). Strong acids, Zinc, Methyl Vinyl Ether, Boric Oxide Hydrogen chloride Will not occur				
Section 11	Toxicit	y Data			
	stion, eye or skin contact. ercalcemia (nausea, vom		tches)		
Acute Toxicity: Chemical Name Calcium Chloride, Dihydrate	CAS Number 10035-04-8	Oral LD50 Oral LD50 Rabbit 1384 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name Calcium Chloride, Dihydrate	CAS Number 10035-04-8	IARC Not listed	NTP Not listed	OSHA Not listed	
Teratogenicity:No evidence ofSensitization:No evidence ofReproductive:No evidence ofTarget Organ Effects:Cardiovascu	a mutagenic effect. a teratogenic effect (birth a sensitization effect. negative reproductive eff lar system, Kidneys, Mus spiratory system, Cardiov	ects. culoskeletal system	uloskeletal system		
Section 12	Ec	ological Data			
Mobility:This mayPersistence:DissolveBioaccumulation:Biocond	aterial is not expected to b aterial is expected to have ed into water centration is not expected of biodegrade readily.	e very high mobility in		o to most soil types.	
Chemical Name Calcium Chloride, Dihydrate	CAS Number E 10035-04-8	co Toxicity			
Section 13	Dispo	osal Informat	ion		
	Dispose in accordance w contact a permitted waste Not Determined			egulations. Always	
Section 14	Trans	port Informat	tion		
Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.				
Section 15	Regula	atory Informa	tion		
TSCA Status:	All components in this pro	oduct are on the TSC	A Inventory.		
Chemical Name CAS Nun	§ § 313 Name nber	§ 304 RQ CE	RCLA RQ § 302 T	PQ CAA 112(2) TQ	
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Additional Information

Calcium Chloride, Dihydrate	10035-04-8	No	No	No	No	No
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Section 16

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-11-2014

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 Industrial Hygienists	NTP OSHA	National Toxicology Program 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