Calcium Chloride, Dihydrate

Section 1	Product Description		
Product Name: Recommended Use:	Calcium Chloride, Dihydrate Science education applications		
Synonyms:	Calcosan		
Supplier:	C2A Sales & Supplies (Barbados) Ltd. #3 Canewood Road, Jackson, St. Michael, Barbados BB11005 1-246-426-1256		
Continue 2	lla-aval lala atification		

Section 2

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		Composition / Information on Ingredients				
Chemical Name		CAS # %				
Calcium Chloride, Dihydrat	e	10035-04-8 100				
Section 4	First Aid Measures					
Emergency and First Aid	d Procedures					
Inhalation:	In case of accid	lent by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	IF IN EYES: Rin	nse 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:						
	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 a	nd Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Ha	zards:	Fire or excessive heat may produce hazardous decomposition products.				
Hazardous Combustion F	Products:	Hydrogen chloride				
Section 6		Spill or Leak Procedures				
	pilled: equipm based on inform	Exposure to the spilled material may be severely irritating or toxic. Follow personal nent recommendations found in Section 8 of this SDS. Personal protective equipment ation provided on this sheet and the special circumstances created by the spill including; I, the area in which the spill occurred, and the expertise of employees in the area				

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.

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. Storage: Keep container tightly closed in a cool, well-ventilated place.

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

Section 8

Section 7

Protection Information

Chemical Name	(TWA)		<u>OSHA PEL</u>			
<u>enemiear name</u>		(STEL)	(TWA)	(STEL)		
Calcium Chloride, Dihydrate	N/A	N/A	N/A	N/A		
Control Parameters						
Engineering Measures: No expo	No exposure limits exist for the constituents of this product. Use local exhaust ventilation					
or other	or other engineering controls to minimize exposures and maintain operator comfort.					
Personal Protective Equipment (PPE): Lab coa	Lab coat, apron, eye wash, safety shower.					
Respiratory Protection:						
	above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection					
-						
Skin Protection: Avoid s	Avoid skin contact by wearing chemically resistant gloves, an apron and other prot					
equipm	equipment depending upon conditions of use. Inspect gloves for chemical break-through					
and replace at regular intervals. Clean protective equipment regularly. W						
	other exposed areas with mild soap and water before eating, drinking, and when leaving					
work.						
Gloves: Butyl ru	bber, Neoprene, Nitril	e				
Section 9	Physical D	ata				

Physical Data

Formula: CaCl2*2H2O	Vapor Pressure: No data available
Molecular Weight: 147.02 g/mol	Evaporation Rate (BuAc=1): No data available
Appearance: White Solid	Vapor Density (Air=1): No data available
Odor: None	Specific Gravity: 1.85
Odor Threshold: No data available	Solubility in Water: Practically Insoluble
pH: 5.0 - 8 @ 147 g/L, 20°C	Log Pow (calculated): No data available
Melting Point: 176 C	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: 0%

Section 10

Reactivity: **Chemical Stability: Conditions to Avoid:**

Incompatible Materials:

Hazardous Polymerization:

Reactivity Data Mildly reactive - See below Stable under normal conditions. 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

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact. Symptoms (Acute): Bradycardia, Hypercalcemia (nausea, vomiting, pain, muscle twitches)

Hazardous Decomposition Products:

Delayed Effects: N	io data avaliable						
Acute Toxicity: Chemical Name Calcium Chloride, Dihydra	ate	CAS Number	Oral LD5			Inhalation LC50	
Calcium Chionde, Dinyura		10033-04-0		Oral LD50 Rabbit Not Not determined 1384 mg/kg			
Carcinogenicity: Chemical Name		CAS Number					
Calcium Chloride, Dihydra	ate	10035-04-8	IARC Not listed	N Not listed	TP I N	OSHA ot listed	
Chronic Effects:							
Mutagenicity:	No evidence of a muta	•					
Teratogenicity: Sensitization:	No evidence of a terat No evidence of a sens		defect).				
Reproductive:	No evidence of negativ		ects.				
Target Organ Effects:							
Acute: Chronic:	Cardiovascular system, Kidneys, Musculoskeletal system Kidneys, Respiratory system, Cardiovascular system, Musculoskeletal system						
Section 12		Ec	ological D	ata			
Overview:	This material i	s not expected to b	e harmful to the	ecology.			
Mobility:	This material is	s expected to have	very high mobilit	ty in soil. It does r	not absorb to n	nost soil types.	
Persistence:	Dissolved into						
Bioaccumulation:	Bioconcentration is not expected to occur.						
Degradability: Other Adverse Effects:	Does not biodegrade readily. No data						
Chemical Name	(CAS Number E	co Toxicity				
Calcium Chloride, Dihydra	ate	10035-04-8					
Section 13		Dispo	osal Inforn	nation			
Disposal Methods:	-	se in accordance w			-	tions. Always	
Waste Disposal Code(s)		et a permitted waste	e disposer (TSD)	to assure complia	ance.		
Section 14		Trans	port Inform	nation			
Ground - DOT Proper Shipping Name:		Air - IATA Proper Shipping Name:					
Not regulated for transport Section 15	by US DOT.	Poqui	Not regulated f	or air transport by	y IATA.		
Section 15		Regula	atory mior	mation			
TSCA Status: All components in this product are on the TSCA Ir			TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2 TQ	
					NI-		
Calcium Chloride, Dihydra	ate 10035-04-8	3 No	No	No	No	No	

Delayed Effects:

No data available

Section 16 Additional Information

Revised: 08/21/2018

Replaces: 06/15/2018

Printed: 08-25-2018

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