

Material Safety Data Sheet

CALCIUM CHLORIDE, FLAKE

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME): FLAKE CALCIUM CHLORIDE	CAS NUMBER: 10043-52-4 (anhydrous)				
CHEMICAL NAME AND/OR SYNONYM: Calcium Chloride, Dihydrate					
FORMULA: CaCl ₂ - 2H ₂ O			MOLEC 147.02	ULAR WEIGHT:	
MANUFACTURER/ADDRESS: GENERAL CHEMICAL CORPORATION 90 East Halsey Road Parsippany, NJ 07054					
CONTACT: Manager, Product Safety	PHONE NUMBER: (973) 515-1840	LAST ISSUE DATE: September, 1994		CURRENT ISSUE DATE: May, 2001	

B. FIRST AID MEASURES

EMERGENCY PHONE NUMBER:

(800) 631-8050

EYES: Flush promptly with plenty of water, continuing for at least 15 minutes. Get medical attention.

SKIN: Wash with plenty of water.

INHALATION: Remove to fresh air.

INGESTION: If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat.

Get medical attention for irritation, ingestion, or discomfort from inhalation.

C. HAZARDS INFORMATION

INHALATION:

Dust or mist inhalation may irritate nose, throat, and lungs.

INGESTION:

Low in toxicity. LD₅₀ (rat): 1.4 g/kg.* - Reference (e) May irritate gastrointestinal tract. *anhydrous basis.

SKIN:

May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded skin or cuts can cause severe necrosis.

EYES:

May irritate or burn eyes.

PERMISSIBLE CONCENTRATION: AIR (SEE SECTION J)

Also, no TLV established by ACGIH.

BIOLOGICAL

None

UNUSUAL CHRONIC TOXICITY:

None.

C. HAZARDS (Cont.)

FLASH POINT:	AUTO IGNITION	FLAMMABLE LIM	ITS IN AIR (% BY VOL.)		
Not flammable	TEMPERATURE NA	LOWER - NA	UPPER - NA		
OPEN CUP ☐ CLOSED CUP ☐		EOWER TW	OTT LIK TWK		
UNUSUAL FIRE AND EXPLOSION HAZARDS					
See hazard of contact with zinc as in galvanized ir	on: Section G.				
D. PRECAUTIONS/PROCEDURES					
FIRE EXTINGUISHING AGENTS RECOMMENDE NA	ED:				
FIRE EXTINGUISHING AGENTS TO AVOID:					
NA PRESIDENTIAL PRESIDENTIAL					
SPECIAL FIREFIGHTING PRECAUTIONS: None.					
VENTILATION: Local exhaust: In packaging and uploading areas, over open processing equipment, and any other places where dusty or misty condition prevails. Natural ventilation: Adequate for other areas.					
NORMAL HANDLING: Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.					
STORAGE:					
Store in a cool, dry area. Prolonged storage may	cause product to cake and become wet from atmos	pheric moisture.			
SPILL OR LEAK (ALWAYS WEAR PERSONAL I					
Shovel up dry chemical and place in metal drum w	ith a cover. Cautiously spray residue with plenty of	water.			
SPECIAL: PRECAUTIONS/PROCEDURES/LAB		SIGNAL WORD			
	V	WARNING!			
E. PERSONAL PROTECTIVE EQUIPM	IENT				
E. PERSONAL PROTECTIVE EQUIPM	I = N I				
RESPIRATORY PROTECTION: For dusty or misty condition, wear NIOSH-approve	ed mist respirator				
To dusty of finisty containent, wear two of approve	a mot respirator.				
EYES AND FACE:					
For dusty or misty condition, or when handling solution where there is reasonable probability of eye contact, wear chemical safety goggles and hat.					
Under these conditions, do not wear contact lense	s.				
HANDS, ARMS, AND BODY:	a boots and gloves for routing product use				
As a minimum, wear long-sleeve shirt and trousers, boots, and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.					
OTHER CLOTHING AND EQUIPMENT:					
Eye-wash facility.					

F. PHYSICAL DATA

MATERIAL IS AT NORMAL CONDITIONS:			APPEARANCE AND COLOR: Small white flakes; odorless.		
LIQUID ☐ SOLID ⊠ GAS ☐		Small whi	te flakes; od	oriess.	
l					
	SPECIFIC GR	AV/ITV-	1	VAPOR DENSITY:	
BOILING POINT: Unknown °C	(H ₂ O = 1)			(AIR =1)	
MELTING POINT: 176 °C		0.835 - Referer	nce (b)		NA: water vapor only.
SOLUBILITY IN WATER:	pH:	utual an alimbulu allualia a		VAPOR PRESSUR	
(% BY WEIGHT) 42 (anhydrous) @ 20°C	INE	utral or slightly alkaline - Reference (c).		(mm Hg @ 20°C) NA	☐ (PSIG) ☐
EVAPORATION RATE:		BY VOLUME:			
(Butyl acetate=1)	(AT 20°C)	NA			
G. REACTIVITY DATA					
STABILITY:	CONDITIONS TO A	VOID:			
UNSTABLE ☐ STABLE ⊠	N	4			
INCOMPATIBILITY (MATERIALS TO AVOID)).				
Sulfuric acid: yields hydrogen chloride gas, w	hich is corrosive, irrita				
reaction. Methyl vinyl ether: starts runaway p which may explode under these conditions. –	olymerization reaction	1 – Reference (a). Zinc	as in gaivan	izea iron: yieias nyar	ogen gas with solutions,
HAZARDOUS DECOMPOSITION PRODUCT	rs·				
None.					
HAZARDOUS POLYMERIZATION:	co	ONDITIONS TO AVOID:	:		
MAY OCCUR WILL NOT OCCUR	\boxtimes	NA			
H. HAZARDOUS INGREDIENTS (MIXTURES ONL	Y)			
MATERIAL OR COMPONENT/C.A	.S. #	WT.%		HAZARD DATA	A (See Sect. J)
NA					

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:	OCTANOL/WATER PARTITION COEFFICIENT NA					
Aquatic Toxicity: TLm96: over 1000 ppm (anhydrous) - Reference (a).						
EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311) YES □ NO ☑ IF SO, REPORTABLE QUANTITY: 40 CFR 116-117						
WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FE	DERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LA	WS):				
Treatment or disposal of waste generated by use of this product should be Users are advised to consult with appropriate regulatory agencies before	e discharge, treatment or disposal.	d regulations.				
RCRA STATUS OF <u>UNUSED</u> MATERIAL IF DISCARDERD: Not a "hazardous waste".	HAZARDOUS WASTE NUMBER: (IF APPLICABLE)	40 CFR 261				
J. REFERENCES						
PERMISSIBLE CONCENTRATIONS REFERENCES:						
None.						
REGULATORY STANDARDS	DOT CLASSIFICATION: Not regulated	49 CFR 173				
None.						
(a) NIOSH, Registry of Toxic Effects of Chemical Substar (b) Weast, R.C. editor, CRC Handbook of Chemistry and (c) Hawley, G.N., editor, Condensed Chemical Dictionary (d) Brethwick, L., Handbook of Reactive Chemical Hazarr (e) General Chemical Corporation tests, unpublished. (A	Physics, 60 th Edition, 1979-80, CRC Press, Inc., Boca Raton 3347, 9 th Edition, 1977, Van Nostrand Reinhold, NYC. ds, 2 nd Edition, 1979, Butterworths, Boston.	31.				
K. ADDITIONAL INFORMATION						
None.						
		CC 1002				

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