Product #: 118835 Name: CALCIUM CHLORIDE FLAKE 77-80% Desc: From: BRENNTAG MID-SOUTH INC. To: PHENIX SUPPLY Monday, July 21, 2014

TETRA Technologies, Inc. Material Safety Data Sheet



Calcium Chloride Solid

1. PRODUCT	AND COMPA	ANY IDENTIFICATION				
TETRA Technologies, Inc. 24955 Interstate 45 North The Woodlands, TX 77380 Synonyms:		CHEMTREC (24-Hr Emergency Response):	U.S. Toll Free (800) 424-930 International +1 703-527-388			
		Poison Control:	(800) 222-1222			
		Non-emergency Customer Service:	(281) 367-1983			
		Briners Grade, EXPRESS [®] , FCC Dry Food Grade Calcium Chloride, TETRA 80 [™] TETRA 94 [™] , TETRA Flake, TETRA SG [™] , WaterShield [™] , Winter Thaw [™]				
Chemical Family:		Inorganic Salt				
MSDS Creation Date:		15 Nov 04				
MSDS Revision Date:		11/11/2011				
2. Hazards	IDENTIFICAT	TION				
HMIS Ratings:	(Scale 0-4)	Health: 1 Fire: 0 Reactivity: 1				
EMERGENCY OVERVIEW:		Odorless, white deliquescent flake. Causes eye irritation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Reacts with water to liberate heat.				
Potential Health	Effects	T				
Skin Contact:		Prolonged contact may cause irritation or burns.				
Eye Contact:		May irritate or burn eyes.				
Inhalation:		Dust inhalation may cause irritation to mucous membranes and respiratory system				
Ingestion:		Ingestion may cause gastrointestinal irritation.				
3. Composit	rion, Infori	MATION ON INGREDIENTS				
CAS Number	Wt. %	Ingredient Name				
10043-52-4	74-100%	Calcium Chloride				
Probable Contar Earth Metal Chlo		m Carbonate, Calcium Hydroxide, Calcium Oxide, A	Alkali Metal Chlorides, Alkaline			
4. First Aid	Measures					
Skin Contact:		Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.				
Eye Contact:		Immediately flush eyes thoroughly with large amounts of water or normal saline for 15-20 minutes. Hold eyelids open during flushing. If irritation or adverse symptoms develop, seek medical attention.				
Inhalation:		Remove from exposure area to fresh air. Obtain medical attention immediately.				
Ingestion:		Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give ½ to 1 glass of water to dilute material. Get medical attention.				
Notes to Physician:		Treat symptomatically and supportively.				
	TING MEASI	JRES				
5. FIRE FIGH	HING MEAS					

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		TETRA
	Calcium Chloride Solid	20 3000 50 10 0000 - 20.
Extinguishing Media:	Use extinguishing media appropriate for surrounding	
Fire Fighting:	Move container(s) from fire area if you can do so with to sides of containers that are exposed to flames until Extinguish fire using agent suitable for type of surrous Do not use water directly on material. Avoid breathing Use self-contained breathing apparatus and protective prevent runoff and contamination of water sources.	l well after the fire is out. nding fire and/or chemicals. g dusts/vapors. Keep upwind
Fire and Explosion Hazard:	Negligible fire hazard when exposed to heat or flame.	
Products of Combustion:	Non-combustible	
6. ACCIDENTAL RELEAS	SE MEASURES	
Evacuation and Safety:	Wear appropriate protective gear for the situation. Se information in Section 8.	ee personal protection
Containment of Spill:	Minimize air borne spreading of dust. For dry spills pl clean, dry container for disposal.	•
Cleanup and Disposal:	Minimize air borne spreading of dust. For dry spills pl clean, dry container for disposal.	ace material in covered,
7. HANDLING AND STOR	RAGE	
Handling:	Avoid skin and eye contact and breathing dusts. Was Launder contaminated clothing before reuse.	
Storage:	Observe all federal, state, and local regulations when a covered, clean and dry container away from incomp	
8. Exposure Control	LS/PERSONAL PROTECTION	
Engineering Controls:	Provide local exhaust ventilation system. Where ther eye wash fountain and safety shower should be provi work area for emergency use.	
Exposure Limits: ACGIH -	(TLV-TWA) Guideline for nuisance particulate (inhalable p	articulate): 10 mg/m³
Personal Protective Equipmen	it (PPE)	
Eyes:	Wear safety glasses with side shields or safety goggl	es/shields.
Hands and Feet:	Wear appropriate protective non-leather protective glo	
Body:	Wear appropriate protective (impervious) clothing. Le leather products will dehydrate with resultant shrinkage.	ge and possible destruction.
Respiratory:	A respirator is not indicated under normal operating capproved respirator should be based upon the present	
9. Physical and Chen	MICAL PROPERTIES	
Description:	White deliquescent flakes	
Odor:	Odorless	
Boiling Point: * Estimated	350°F (175°C) – 3500°F (1930°C)	
Melting Point: * Estimated	350°F (175°C) – 1420°F (770°C)	
Specific Gravity (H ₂ O=1):	2.15 @ 77°F (25°C)	
Water Solubility:	40% @ 68°F (20°C) with evolution of heat	
Vapor Density (Air=1):	Not applicable	
Vapor Pressure:	Not available	
N/A = Not Applicable N.E. = Not Established		
Calcium Chloride Solid (11-20	11) MANANA TATATAGA GARA	Page 2 of 4
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Calcium Chloride Solid (11-2011)

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	AND REAC		1.1			
Stability and Read	ctivity:	Reacts exothermically with water				
Incompatibilities:		Strong oxidizing agents				
Hazardous Decor	nposition:	None under normal col				
Polymerization:		Does not occur under i	normal temper	atures and	pressures.	
Conditions to Avo	id:	None.				
11. Toxicold	OGICAL INFO	RMATION				
Toxicity Data:		Anhydrous Calcium Chloride: TD _{LO} : 112/kg, oral, 20 weeks, rat LD _{LO} : 274 mg/kg, subcutaneous, dog LD ₅₀ : 1000 mg/kg, oral, rat LD ₅₀ : 264 mg/kg, interperitoneal, rat See Registry of Toxic Effects of Chemical Substances (RTECS) file for mutagenic and tumorigenic data. Local Effects – Eye, mucous membrane and skin irritant Health Effects – Moderately toxic by ingestion. Slightly toxic by dermal absorption				
Carcinogen Status	s:		ITP – No	IARC -		
12. EcoLogic	CAL INFORM	ATION				
Product will not bi	odegrade or bio	paccumulate				
Product will not bi						
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TSCA Status:

All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer.

16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

ISSUE DATE: 11/15/2004

PREPARED BY: TETRA Technologies, Inc. Corporate Health, Safety & Environment

Revision History: 12/20/2007

04/12/2010 11/11/2011

N/A = Not Applicable N.E. = Not Established

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