From: BRENNTAG MID-SOUTH INC. To: Wednesday, March 10, 2010

TETRA Technologies, Inc. Material Safety Data Sheet

Calcium Chloride Solid (12-2007)



Calcium Chloride Solid

TETRA Technologies, Inc. 25025 I-45 North The Woodlands, TX 77380		CHEMTREC (24-Hr Emergency Response):	U.S. Toll Free (800) 424-9300 International +1 703-527-388
		Poison Control:	(800) 222-1222
		Non-emergency Customer Service:	(281) 367-1983
Synonyms:		Briners Grade, EXPRESS®, EXPRESS®RM, FCC Dry Food Grade Calcium Chloride, Ice Blaster®, TETRA 75™C, TETRA 80™C, TETRA 80™HP, TETRA 80™P, TETRA 94™, TETRA Flake, TETRA SG™, WaterShield™, Winter Thaw™	
Chemical Family:		Inorganic Salt	
MSDS Creation Date:		15 Nov 04	
MSDS Revision Date:		20 Dec 07	
2. HAZARDS ID	ENTIFICA	TION	***************************************
HMIS Ratings: (Scale 0-4)	Health: 1 Fire: 0 Reactivity: 1	
EMERGENCY OVERVIEW:		Odorless, white pellets/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 Eff	ects		
Skin Contact:		May cause minor irritation.	
Eye Contact:		May irritate or burn eyes.	
Inhalation:		Dust inhalation may cause irritation to mucous membranes and respiratory system	
Ingestion:		Ingestion may cause nausea.	
3. Compositio	n, Infor	MATION ON INGREDIENTS	
CAS Number \	Nt. %	Ingredient Name	
10043-52-4	74-100%	Calcium Chloride	
Probable Contamin Earth Metal Chlorid		ım Carbonate, Calcium Hydroxide, Calcium Oxide, A	Alkali Metal Chlorides, Alkaline
4. FIRST AID M		3	
Skin Contact:		Remove contaminated clothing and shoes. Was detergent.	h affected area with soap or mild
Eye Contact:		Immediately flush eyes thoroughly with large amounts of water 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. Give artificial respiration ONLY if breathing has stopped. 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.	

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	SURES	
Flash Point:	Not applicable	
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.	
Fire Fighting:	Move container(s) from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing dusts/vapors. Keep upwind Use self-contained breathing apparatus and protective clothing. Dike area to prevent runoff and contamination of water sources.	
Fire and Explosion Hazard:	Negligible fire hazard when exposed to heat or flame.	
Products of Combustion:	Non-combustible Non-combustible	
6. ACCIDENTAL RELEAS	SE MEASURES	
Evacuation and Safety:	Wear appropriate protective gear for the situation. See personal protection information in Section 8.	
Containment of Spill:	Minimize air borne spreading of dust. For dry spills place material in covered, clean, dry container for disposal.	
Cleanup and Disposal:	Minimize air borne spreading of dust. For dry spills place material in covered, clean, dry container for disposal.	
7. HANDLING AND STOP		
Handling:	Avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before reuse.	
Storage:	Observe all federal, state, and local regulations when storing this product. Store a covered, clean and dry container away from incompatible materials.	
8. Exposure Control	S/PERSONAL PROTECTION	
Engineering Controls:	Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.	
Exposure Limits: ACGIH -	(TLV-TWA) Guideline for nuisance particulate (inhalable particulate): 10 mg/m ³	
Personal Protective Equipmen	t (PPE)	
Eyes:	Wear safety glasses with side shields or safety goggles/shields.	
Hands and Feet:	Wear appropriate protective non-leather protective gloves and boots.	
Body:	Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.	
Respiratory:	A respirator is not indicated under normal operating conditions. Use of a NIOSH approved respirator should be based upon the presence of nuisance dust.	
9. PHYSICAL AND CHEN	IICAL PROPERTIES	
Description:	White pellets/flakes	
Odor:	Odorless	
Boiling Point:	>1600°F (>871°C)	
Melting Point:	~ 1439 °F (~772 °C)	
Specific Gravity (H ₂ O=1):	2.15 @ 77°F (25°C)	
	40% @ 68°F (20°C) with evolution of heat	
Water Solubility:	Not applicable	
Vapor Density (Air=1):	Not applicable	

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10. STABILITY AND REACTIVITY			
Stability and Reactivity:	Reacts exothermically with water		
Incompatibilities:	Strong oxidizing agents.		
Hazardous Decomposition:	None under normal conditions.		
Polymerization:	Does not occur under normal temperatures and pressures.		
Conditions to Avoid:	None.		
11. Toxicological Inf	FORMATION		
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, intraperitoneal, rat		

Toxicity Data:

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.

OSHA – No NTP – No IARC – No

12. ECOLOGICAL INFORMATION

Product will not biodegrade or bioaccumulate.

13. DISPOSAL INFORMATION

Carcinogen Status:

Observe all federal, state, and local regulations when disposing of this substance.

14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

Shipping Name:	Not regulated
ID Number:	Not applicable
Hazard Class or Division:	Not applicable
Packing Group:	Not applicable
Labeling Requirements:	Not applicable
Packing Authorizations:	
Exceptions:	Not applicable
Non-bulk Packing:	Not applicable
Bulk Packing:	Not applicable
Quantity Limitations:	
Passenger Aircraft:	Not applicable
Cargo Aircraft Only:	Not applicable
Vessel Stowage Req.:	Not applicable
Emergency Guide Number:	Not applicable

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15. REGULATORY INFORMATION		
Workplace Classification:		
SARA Title III:	Section 311: Acute Hazard, Reactivity Hazard	
TSCA Status:	Yes	
CERCLA:	No	
EINECS Status:	Yes	
OSHA Process Safety:	No	
California Proposition 65:	No ingredients found on the list	
WHMIS Classification:	D2B	

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.