

TETRA TECHNOLOGIES, INC -- CALCIUM DICHLORIDE, TETRA EXPRESS, TETRA-94 --  
6810-01-200-3457

===== Product Identification =====

Product ID:CALCIUM DICHLORIDE, TETRA EXPRESS, TETRA-94

MSDS Date:11/09/1993

FSC:6810

NIIN:01-200-3457

MSDS Number: BXSDG

=== Responsible Party ===

Company Name:TETRA TECHNOLOGIES, INC

Address:25025 IH-45 NORTH

City:THE WOODLANDS

State:TX

ZIP:77380

Country:US

Info Phone Num

:713-367-1983/800-327-7817

Emergency Phone Num:713-367-1983(CHEMTREC 800-424-9300)

Preparer's Name:CLARE WELKER

CAGE:5N055

=== Contractor Identification ===

Company Name:BARTLETT CHEMICALS

Address:4955 RIVER ROAD

Box:10710

City:JEFFERSON

State:LA

ZIP:70121

Country:US

Phone:504-734-1971

CAGE:1V771

Company Name:TETRA TECHNOLOGIES, INC.

Box:City:HOUSTON

State:TX

ZIP:77273

Country:US

Phone:800-327-7817

CAGE:5N055

===== Composition/Information on Ingredients =====

Ingred Name:CALC

IUM CHLORIDE  
CAS:10043-52-4  
RTECS #:EV9800000  
Fraction by Wt: 90-100%  
Other REC Limits:NONE RECOMMENDED

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===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1000 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION-MAY CAUSE  
IRRITATION. SKIN-MAY CAUSE IRRITATION, POSSIBLY SEVERE. EYE-MAY  
CAUSE IRRITATION. CHRONIC: INHALAT  
ION-MAY CAUSE PERFORATION OF THE  
NOSE. SKIN-MAY CAUSE IRRITATION.  
Explanation of Carcinogenicity:CALCIUM CHLORIDE IS NOT LISTED AS A  
CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.  
Effects of Overexposure:INHALED: COUGHING, SHORTNESS OF BREATH, NOSE  
BLEED. EYES-TEARING. SKIN-BLISTERS, SORES. INGESTED-NO INFORMATION  
AVAILABLE.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First A  
id:INHALED-REMOVE TO FRESH AIR. IF NOT BREATHING, PERFORM  
ARTIFICIAL RESPIRATION. KEEP WARM & AT REST. SKIN-REMOVE SOILED  
CLOTHES. WASH AREA WITH SOAP & WATER. IF BURNED, COVER AREA WITH  
STERILE DRY DRES SING. SEE DOCTOR. EYE-WASH EYES WITH LARGE AMOUNTS  
OF WATER OR NORMAL SALINE SOLUTION. SEE DOCTOR. INGESTION-GET  
MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD LOWER  
THAN HIPS.

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===== Fire Fighting Measures =====

Flash Poin  
t:NONE  
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR  
REGULAR FOAM. FOR LARGE FIRES, USE WATER SPRAY, FOG OR REGULAR  
FOAM.  
Fire Fighting Procedures:MOVE CONTAINERS FROM FIRE AREA WITHOUT RISK.  
APPLY COOLING WATER TO SIDESFIREFIGHTERS SHOULD WEAR PROPER  
PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPAR  
Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO  
HEAT OR FLAME.

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===== Accidental Release Measures =====

Spill Release Procedures:DO NOT TOUCH SPILLED MATERIAL. STOP LEAK WITHOUT RISK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN STORING MATERIAL. STORE IN A TIGHTLY CLOSED CONTAINER. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION SYSTEM.

Protective Gloves:RUBBER.

Eye Protection:SAFETY GLASSES W/SHIELD OR SAFETY GOGGLE

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Other Protective Equipment:MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

OTHER PROTECTIVE EQUIPMENT: EYE WASH STATION & SAFETY SHOWER.

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===== Physical/Chemical Properties =====

HCC:B3

Boiling Pt:B.P. Text:2912F,1600C

Melt/Freeze Pt

:M.P/F.P Text:1440F,782C

Spec Gravity:2.15

Solubility in Water:APPRECIABLE

Appearance and Odor:COLORLESS TO WHITE, DELIQUESCENT CRYSTALS.

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===== Stability and Reactivity Data =====

BORIC ACID+CALCIUM OXIDE, BROMINE TRIFLUORIDE, FURAN-2-PEROXYCARBOXYLIC ACID, METALS, METHYL VINYL ETHER, ZINC.

Stability Condition to Avoid:ANHYDROUS FORM REACTS EXOTHERMICALLY WITH WATER.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC AND COR

ROSIVE FUMES OF CHLORINE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

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