

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

Product ID:CALCIUM CHLORIDE

MSDS Date:01/01/1987

FSC:6810

NIIN:00-237-2934

MSDS Number: BDLYL

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Emergency Phone Num:(314)982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHI

LLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

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

Ingred Name:CALCIUM CYANIDE MIXTURE

RTECS #:EW0710000

Fraction by Wt: >99%

OSHA PEL:5 MG/M3 (CN)

ACGIH TLV:S, 5 MG/M3 (CN)

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

Effects of Overexposure:INH:DUST MAY IRRIT UPPR RESP TRACT;ING:MAY  
IRRIT MUC MEMB;SKIN:IRRITANT.MAY BURN;EYES:BURNS/IRRIT.

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

First Aid:INHAL:RMV TO FRESH AIR.GET MD FOR BREATHG  
DIFFICULTY;INGEST:IMMED INDUCE VOMIT BY GIVING 2 GL OF  
WATER/MILK.NOTHING BY MOUTH IF UNCONSCIOUS.GET MD IMMED;SKIN:WASH  
W/SOAP & WATER.GET MD IF IRRIT OCCURS ;EYES:FLUSH W/H2O FOR 15  
MIN.GET MED ATTN IMMED.

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

Flash Point:NONE

Extinguishing Media:EXTINGUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SE

LF-CNTD BRTHG,APP H2O SPRAY TO COOL  
CONTR.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

Spill Release Procedures:CLEAN-UP PERSONS MAY REQUIRE PROTECTIVE CLOTHING & RESP PROTECTION FROM DUST.COLLECT SPILLED MATL BY SWEEPING, PICKING OR SCOOPING & TRANSFER TO A CLOSED,WATER-PROOF NON-METAL CONTAINER SUITABLE FOR SHIPPING (MOIST/WET CaCl2 MAY CORRODE STEEL).

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

Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS IN COOL,DRY, VENTLTED AREA.PROTECT AGAINST PHYSICAL DAMAGE.MOIST CaCl2/CONC SOLN MAY CORRODE STEEL.DO NOT STORE IN METAL CONT  
Other Precautions:AVOID CONTACT W/EYES,SKIN & CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT EXPOSE TO ATMOSPHERE BECAUSE CALCIUM CHLORIDE WILL ABSORB WATER & FORM A SOLUTION.

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

Respiratory Protection:SUPPLIED AIR RESPIRATOR/SCBA; ESCAPE: GAS MASK  
Ventilation:LOCAL EXHAUST TO MAINTAIN BELOW TLV.  
Protective Gloves:IMPERVIOUS  
Eye Protection:GOGGLES/FACE SHIELD  
Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION  
Supplemental Safety and Health  
MSDS FROM MFR DATED: 05 SEP 85, CONFORMS TO OSHA HAZ COMM STD; BOILING POINT: OVER 1600C(2912F); MELTING POINT: 772C(1422F)

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

HCC:N1  
Boiling Pt  
:B.P. Text:>1600C  
Spec Gravity:2.15  
Solubility in Water:COMPLETE  
Appearance and Odor:WHITE OR GRAY-WHITE GRANULES. ODORLESS.

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

Stability Indicator/Materials to Avoid:YES  
METALS,AL, YELLOW BRASS,BROMINE TRIFLUORIDE,MIX OF LIME/ BORATE  
Stability Condition to Avoid:WET/MOIST CONDITIONS.(CaCl2 ABSORBS H2O & MAKES ACID SOLN)  
Hazardous Decomposition Products:CHLORINE/HCL GAS FUMES,&OXIDES OF CALCIUM WHEN HEATED.

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

Waste Disposal Methods:COLLECTED WASTE MAY BE SHIPPED I/A/W DOT REGS TO  
A RCRA-APPROVED WASTE DISPOSAL FACILITY.ENSURE COMPLIANCE WITH  
LOCAL,STATE,& FEDERAL REGULATIONS.

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