

# MATERIAL SAFETY DATA SHEET

## General Information

Company's Name: The Chemistry Store.com Inc.  
Company's Address: 1133 Walter Price St Cayce, SC 29033  
Company's Emerg Ph #: 1-800-535-5053 (Infotrac)  
Company's Info Ph #: 1-800-224-1430  
Date MSDS Prepared: 2/1/07

**PRODUCT NAME: Calcium Chloride**

## Ingredients/Identity Information

Ingredient: CALCIUM CHLORIDE NIOSH (RTECS) Number: EV9800000 CAS Number: 10043-52-4 OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

## Physical/Chemical Characteristics

Appearance And Odor: WHITE ODORLESS Flakes \*NON VOLATILE BUT ABSORBS MOISTURE Boiling Point: 320F, 160C Melting Point: 1422F, 772C Vapor Pressure (MM Hg/70 F): NA Vapor Density (Air=1): NK Specific Gravity: 2.2 Decomposition Temperature: NK Evaporation Rate And Ref: NK Solubility In Water: VERY SOLUBLE

## Fire and Explosion Hazard Data

Flash Point: NA Lower Explosive Limit: NA Upper Explosive Limit: NA Extinguishing Media: NONCOMBUSTIBLE. Special Fire Fighting Proc: NONE Unusual Fire And Expl Hazrds: NONE

## Reactivity Data

Stability: YES Cond To Avoid (Stability): MOISTURE. HIGHLY HYGROSCOPIC. GIVES OFF HEAT WHILE DISSOLVING. Materials To Avoid: METALS CORRODE SLOWLY IN AN AQUEOUS CALCIUM CHLORIDE SOLUTIONS, ALUMINUM & ALLOYS, YELLOW BRASS WILL BE ATTACKED. Hazardous Decomp Products: NK Hazardous Poly Occur: NO

## Health Hazard Data

LD50-LC50 Mixture: NK Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: SEVERE EYE IRRIT TO MODERATE CORNEAL INJURY. STRONG SOLUTIONS/SOLIDS ON MOIST SKIN MAY CAUSE MARKED IRRIT EVEN BURN. MILD IRRIT ON DRY SKIN. NOT CONSIDERED ABSORBABLE THROUGH SKIN IN TOXIC AMTS. INGESTION: LOW TOXICITY IN SINGLE DOSE. INHALATION: LOW TOXICITY IN CONCENTRATION OF 10 MG/M3 IN BREATHABLE AIR SUGGESTED. Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: NK Signs/Symptoms Of Overexp: NK Med Cond Aggravated By Exp: NK Emergency/First Aid Proc: EYES: IMMEDIATELY IRRIGATE W/FLOWING WATER CONTINUOUSLY 15 MINUTES. SKIN: IMMEDIATELY FLUSH SKIN W/ABUNDANT WATER AT LEAST 15 MIN, REMOVE CONTAM CLOTHES. WASH CLOTHES BEFORE REUSE. DESTROY CONTAM SHOES. CALL DR IF IRRIT PERSISTS. INGESTION: IMMEDIATELY INDUCE VOMITING BY REMOVE TO FRESH AIR IF ILL EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

## Precautions for Safe Handling and Use

Steps If Matl Released/Spill: NO SPECIAL ACTION. SPILL SHOULD BE SWEEPED UP, RETURNED TO CONTAINER OR DISCARDED. SINCE MOISTURE RETAINED BY SPILLED MATERIAL, FLOORS MAY REMAIN WET LONGER. Neutralizing Agent: NK Waste Disposal Method: WASH AWAY W/WATER IN EXCESS. MAY BE BURIED. KEEP AWAY FROM DRINKING WATER SOURCES. OBSERVE LOCAL, STATE, FEDERAL REGULATIONS. Precautions-Handling/Storing: AVOID EYE/PROLONGED SKIN CONTACT. VERY HIGH HEAT DEVELOPED WHEN DISSOLVING CALCIUM CHLORIDE. ALWAYS USE WATER AT <27C. Other Precautions: CALCIUM CHLORIDE PICKS UP MOISTURE & FORMS A SOLUTION WHEN EXPOSED TO ATMOSPHERE.

## Control Measures

Respiratory Protection: AVOID DUST. RESPIRATOR IF NEEDED. Ventilation: NK Protective Gloves: NOT LEATHER-DAMAGED BY CALCIUM CHLORIDE. Eye Protection: EYE FOUNTAIN NEAR WORK AREA, SAFETY\*\* Other Protective Equipment: BODY SHOULD BE WELL COVERED BY CLEAN CLOTHES. DEPENDING ON POSSIBLE EXPOSURE GLOVES/BOOTS/APRON RECOMMENDED. Work Hygienic Practices: NK \*\* GLASSES W/O SIDE SHIELDS MAY BE USED FOR NORMAL CONDITIONS. FOR SEVERE EXPOSURE USE CHEMICAL WORKERS GOGGLES. Suppl. Safety & Health Data: NOTE TO DR: STRAIN FOR EVIDENCE CORNEAL INJURY. IF SO INSTILL ANTI-BIOTIC STEROID PREPARATION FREQUENTLY. CONSULT OPHTHALMOLOGIST. SKIN: TREAT AS NORMAL DERMATITIS. TREAT BURN AS THERMAL. INHAL: MAY CAUSE IRRIT. ORAL: LOW TOXICITY. NO SPECIFIC ANTEDOTE. TREATMENT BASED ON JUDGMENT OF DR ON PARTICULAR CASE.