



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: Calcium Chloride 74-77%

PRODUCT USE: Oil Well Fluid & Cement Additive **Cas No:** 10035-04-8

CHEMICAL FAMILY: Calcium Chloride (77%)
CaCl₂.2H₂O, Dihydrate

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D 2B

WORK PLACE HAZARD: Skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

SHIPPING NAME: Not Regulated Under TDG

TDG CLASSIFICATION: N/A

UN NUMBER (PIN): N/A

PACKING GROUP: N/A

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT(%)</u>	<u>CAS NUMBER</u>	<u>LD₍₅₀₎ Oral-Rat</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Calcium Chloride	>77	10035-04-8	1000 mg/kg	N/A	10 mg/m ³

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN EYE CONTACT INHALATION INGESTION

EYE CONTACT: Dusts may cause moderate to severe eye irritation with corneal injury that may be slow to heal.

SKIN CONTACT: Prolonged or repeated contact with the dust may irritate the skin or cause burns especially if skin is moist or if material is confined to skin.

INGESTION: Swallowing solids may cause gastrointestinal irritation or ulceration.

INHALATION: Breathing dust may irritate the nose and throat and cause coughing and chest discomfort

SECTION IV: FIRST AID MEASURES



MATERIAL SAFETY DATA SHEET

SKIN CONTACT:	Immediately wash skin with lots of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.
EYE CONTACT:	GET IMMEDIATE MEDICAL ATTENTION. Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally.
INGESTION:	If conscious, immediately induce vomiting. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
INHALATION:	Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Small White Flakes; Odourless
SPECIFIC GRAVITY:	1.85 g/cc
BOILING POINT (°C):	N/A
MELTING POINT (°C):	176°C
SOLUBILITY IN WATER:	1000 gm/L(15.6°C)
pH:	7-10
PERCENT VOLATILE BY VOLUME:	N/A
EVAPORATION RATE:	N/A
VAPOUR PRESSURE (mm Hg):	N/A
VAPOUR DENSITY (Air = 1):	N/A

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	N/A
FLAMMABLE LIMITS:	N/A
EXTINGUISHING MEDIA:	Media appropriate for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained respirators required for fire fighting personnel

SECTION VII: REACTIVITY DATA

STABILITY:	Stable [XX]	Unstable []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Decomposes above 204°C. Reacts violently with bromine trifluoride, or a mixture of boron trioxide and calcium oxide. Sulphuric Acid yields hydrogen chloride (HCl) which is corrosive, irritating and reactive. Water reactive materials such as sodium	



MATERIAL SAFETY DATA SHEET

cause an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc as in galvanized iron yields hydrogen gas with solutions, which may explode under these conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes of chloride (Cl-) are given off at temperatures above 1600°C.

HAZARDOUS POLYMERIZATION: Will Not Occur [XX] May Occur []

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Approved dust respirator or mask.

VENTILATION: Local mechanical exhaust.

PROTECTIVE GLOVES: Rubber gloves.

EYE PROTECTION: Chemical goggles.

OTHER PROTECTIVE EQUIPMENT (Specify): An eyewash and safety shower should be nearby and ready for use.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, very dry place. Keep container tightly closed when not in use. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Wear protective equipment. For small spills, sweep up and dispose of in approved waste containers. For large spills, shovel into approved waste containers.

WASTE DISPOSAL METHOD

Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate regulatory agencies to ascertain proper disposal procedures.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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