SECTION 1 - IDENTIFICATION

PRODUCT (TRADE) NAME: CT485-CAL-KIT
CHEMICAL FAMILY: Sodium Chloride and Magnesium Chloride
TRADE NAME SYNONYMS: Sodium Chloride: Common Salt, Halite Magnesium Chloride: Hexahydrate
SUPPLIER: OMEGA ENGINEERING, INC.
P.O. BOX 4047
STAMFORD, CT 06907
TELEPHONE: (203) 359-1660
SHIPPING NAME (UN NUMBER PER TRANSPORTATION AUTHORITY): N/A
EMERGENCY RESPONSE TELEPHONE NUMBERS:
(800) 255-3924  (813) 979-0626

SECTION 2 - INGREDIENTS

Sodium Chloride (NaCl)  
MgCl₂ · 6H₂O

** SECTION NOTES **

These products contain no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and the Community Right to Know Act of 1986 and of CFR 372.

SECTION 3 - PHYSICAL DATA

BOILING POINT (°F): N/A
MELTING POINT (°F): NaCl - 1473; MgCl₂ - 212
SPECIFIC GRAVITY (H₂O = 1): N/A
DENSITY: NaCl - 2.17; MgCl₂ - 1.55
PERCENT VOLATILE BY VOLUME (%): N/A
VAPOR DENSITY (Air = 1): N/A
EVAPORATION RATE (Ethyl ether = 1): N/A
SOLUBILITY IN WATER: Water soluble
MATERIAL AT NORMAL CONDITION: Solid
EXPANSION RATIO (LIQUID TO GAS): N/A
APPEARANCE AND ODOR: Colorless or white crystals; odorless

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
FLASH POINT (METHOD USED): N/A
FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: N/A  UPPER: N/A
EXTINGUISHING MEDIA: Use appropriate equipment to fight surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Use appropriate measures to fight surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

SECTION 5 - REACTIVITY DATA

THRESHOLD LIMIT VALUE:
NaCl – ORAL-Human 12,357mg/kg
ORAL-RAT 3,000 mg/kg
MgCl₂ – ORAL-RAT 8,100 mg/kg

UNUSUAL CHRONIC TOXICITY: Toxicity low for all normal routes.
CARCINOGENICITY: N/A
ROUTES OF EXPOSURE: Inhalation, ingestion, skin contact, eye contact.
EFFECTS OF OVEREXPOSURE: NaCl – Inhalation can cause irritation of the upper respiratory tract. Ingestion of large quantities may cause gastrointestinal bleeding and cardiovascular effects.
MgCl₂ – Dust may be irritating to eyes and mucous membranes. Acts as a laxative in small doses. Massive doses can be toxic.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NaCl – High blood pressure

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Wash with soap and water.
SKIN CONTACT: Move exposed person to fresh air.
INHALATION: NaCl – Administer large quantities of water. If large amounts ingested, induce vomiting.
INGESTION: MgCl₂ – Immediately call a physician if large amounts are swallowed.
SECTION 6 - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: N/A
INCOMPATIBILITY (MATERIALS TO AVOID): NaCl – Strong oxidizing agents, lithium, inter-halogen (e.g., bromine trifluoride), iron, cement. MgCl₂ – N/A.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride.
HAZARDOUS POLYMERIZATION: Does not occur.
CONDITIONS TO AVOID: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

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

NaCl – Sweep up solids and wash with water.
MgCl₂ – With a clean shovel, carefully place material in a clean, dry container and cover. Remove from area and flush spill area with water.

WASTE DISPOSAL METHOD: Disposal to sanitary drain (NaCl, MgCl₂) or trashcan (NaCl). Dispose in accordance with all applicable Federal, state, and local regulations.

SECTION 8 - SPECIAL PROTECTIVE INFORMATION

SPIRATORY PROTECTION (SPECIFY TYPE): If airborne concentrations high, use appropriate regulator or dust mask.
VENTILATION: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.
PROTECTIVE GLOVES: Proper gloves recommended.
EYE PROTECTION: Wear goggles while handling, especially if dusts present.
OTHER PROTECTIVE EQUIPMENT: N/A

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OTHER PRECAUTIONS: N/A

VALUE CONNECTION: N/A

HIGHLY DANGEROUS TO HANDLE; KEEP OUT OF REACH OF CHILDREN

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed.

SECTION 6 - REACTIVITY DATA

INSTABILITY: Stable.

HAZARDOUS PROPERTIES: Strong oxidizing agent.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride.

CONTAMINATION TO AVOID: N/A

CONTAMINATION OF MATERIALS TO AVOID: N/A

STABILITY: Stable.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: N/A

N/A: -Not applicable-
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