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SECTION 1 - IDENTIFICATION  
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PRODUCT (TRADE) NAME: HX90-CAL  
CHEMICAL FAMILY: Sodium Chloride and Lithium Chloride  
TRADE NAME SYNONYMS: Sodium Chloride: Common Salt, Halite  
DATE PREPARED: 11/10/95

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

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SECTION 2 - INGREDIENTS  
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|                         | CAS Number |
|-------------------------|------------|
| Sodium Chloride (NaCl)  | 7647-14-5  |
| Lithium Chloride (LiCl) | 7447-41-8  |

\*\* SECTION NOTES \*\*

These product contains 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:

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SECTION 3 - PHYSICAL DATA  
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BOILING POINT (°F): NaCl - 2575; LiCl - 2480  
MELTING POINT (°F): NaCl - 1473; LiCl - 1135  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): NaCl - 2.17; LiCl - 2.07  
VAPOR PRESSURE (mm Hg): N/A  
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: White crystals; odorless

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA  
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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

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SECTION 5 - HEALTH HAZARD DATA  
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THRESHOLD LIMIT VALUE: NaCl - N/A  
LiCl - ORAL-RAT 526 mg/kg  
IPR-RAT 514 mg/kg  
SCU-RAT 499 mg/kg

UNUSUAL CHRONIC TOXICITY: N/A

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.  
LiCl - Prolonged contact may cause skin sensitization. Ingestion may cause nervous system depression.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NaCl - High blood pressure

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush with water for 15 minutes.  
SKIN CONTACT: Wash with soap and water.  
INHALATION: Move exposed person to fresh air  
INGESTION: NaCl - Administer large quantities of water.  
LiCl - Immediately induce vomiting; call a physician.

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SECTION 6 - REACTIVITY DATA  
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STABILITY: Stable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): NaCl - Strong oxidizing agents, lithium, inter-halogens (e.g., bromine trifluoride), iron, cement. LiCl - Bromine trifluoride, bromine trichloride.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride.

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: N/A

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SECTION 7 - SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: NaCl - Sweep up solids and wash with water. LiCl - Wear self-contained breathing apparatus and full protective clothing. 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 drain (NaCl, LiCl) or trashcan (NaCl). Dispose in accordance with all applicable Federal, state, and local regulations.

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SECTION 8 - SPECIAL PROTECTIVE INFORMATION  
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RESPIRATORY PROTECTION (SPECIFY TYPE): If airborne concentration is 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 dust is present.

OTHER PROTECTIVE EQUIPMENT: N/A

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SECTION 9 - SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container tightly closed. Suitable for any general chemical storage area.

VALVE CONNECTION: N/A

OTHER PRECAUTIONS: N/A

\*\* SECTION NOTES \*\*

| EMIS RATING:  | <u>NaCl</u> | <u>LiCl</u> |
|---------------|-------------|-------------|
| HEALTH:       | Slight      | Moderate    |
| FLAMMABILITY: | None        | None        |
| CONTACT:      | Slight      | None        |
| REACTIVITY:   | None        | Moderate    |

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