



This MSDS Sheet complies with the style format specified by ANSI Z400 1-1993

SECTION 1: CHEMICAL PRODUCT - COMPANY IDENTIFICATION

TETRA Technologies, Inc. (281) 367-1983
25025 I-45 North (800) 327-7817
The Woodlands, Texas 77380

(800) 424-9300 CHEMTREC (24 Hour Emergency Response)
(800) 222-1222 POISON CONTROL

PRODUCT: HI-CAL™
CHEMICAL FAMILY: Inorganic Salt
MSDS CREATION DATE: 07 OCT 97
MSDS REVISION DATE: 24 SEP 02

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

The composition of this product is proprietary. This product is not hazardous as defined in 29 CFR 1910.1200. In the event of a medical emergency, compositional information will be revealed to a physician or nurse.

COMPONENTS	CAS NUMBER	RTECS NUMBER	PERCENTAGE
Calcium Chloride	10043-52-4	EV9800000	Proprietary
Proprietary	Proprietary	Proprietary	Proprietary

PROBABLE CONTAMINANTS: Calcium Carbonate, Calcium Hydroxide, Calcium Oxide, Alkali Metal Chlorides, Alkaline Earth Metal Chlorides

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATINGS: (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0
EMERGENCY OVERVIEW: Odorless, clear to amber liquid. May cause skin, respiratory tract, and eye irritation.

POTENTIAL HEALTH EFFECTS:
INHALATION, SKIN CONTACT, EYE CONTACT: May cause minor irritation.
INGESTION: May cause nausea.

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.
EYE CONTACT: Flush eyes with water or normal saline solution.
INGESTION: Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Negligible fire hazard.
HAZARDOUS COMBUSTION PRODUCTS: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: For small spills, take up with sand or other absorbent material and place in containers for disposal. For larger spills, dike far ahead of spill for later disposal.



SECTION 7: HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this product. Store in a tightly closed container. Store away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits established by OSHA/ACGIH/NIOSH.
VENTILATION: Provide local exhaust ventilation system.
EYE PROTECTION: Wear safety glasses with splash shields or safety goggles/shield.
CLOTHING: Wear normal work clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
GLOVES: Wear appropriate protective gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Odorless, colorless to light yellow or amber liquid.
MOLECULAR FORMULA: Proprietary
MOLECULAR WEIGHT: Proprietary
BOILING POINT: Proprietary
SPECIFIC GRAVITY: Proprietary
pH: 6.0 - 9.0
WATER SOLUBILITY: Miscible with water in all proportions.
SOLVENT SOLUBILITY: Miscible in alcohol, acetic acid and acetone

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable under normal temperatures and pressures.
INCOMPATIBILITIES: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION: None, under normal conditions.
POLYMERIZATION: Does not occur under normal temperatures and pressures.
CONDITIONS TO AVOID: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA (ANHYDROUS CALCIUM CHLORIDE):

TD_{Lo}: 112g/kg, oral, 20 weeks, rat

LD_{Lo}: 274 mg/kg, subcutaneous, dog

LD₅₀: 1000 mg/kg, oral, rat

LD₅₀: 264 mg/kg, intraperitoneal, rat

Mutagenic data and tumorigenic data—see Registry of Toxic Effects of Chemical Substances (RTECS) file.

CARCINOGEN STATUS: None.
LOCAL EFFECTS: Eye, mucous membrane and skin irritant.
ACUTE TOXICITY LEVEL: Moderately toxic by ingestion, slightly toxic by dermal absorption.

SECTION 12: ECOLOGICAL INFORMATION

DEGRADABILITY: Product will not biodegrade or bioaccumulate.

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

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SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name-ID Number: Non-regulated.

SECTION 15: REGULATORY INFORMATION

TSCA STATUS:	Yes
DSL STATUS:	Yes
EINECS STATUS:	Yes
OTHER TSCA ISSUES:	None
CALIFORNIA PROPOSITION 65:	No ingredients found on the Propositions 65 list
SARA SECTIONS 311 CLASSIFICATION:	Acute Hazard

SECTION 16: OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.