

MATERIAL SAFETY DATA SHEET

HYE-CAL

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Issue Date: 5/04

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

HYE-CAL

Common Name: Fertilizer solution, aqueous.

Chemical Description: Calcium nitrate and carboxylic acids, aqueous solution.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Gar Tootelian, Inc.

8246 South Crawford

Reedley, CA 93654

Emergency Phone Numbers

Emergency Telephone:
9884

DAYS: (559) 638-6311

EVES.: (559) 908-

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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None

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Brown liquid with slightly sweet odor. Eye and skin irritant. Avoid contact with readily oxidizable or flammable liquids. Fumes of toxic nitrogen oxides appear when exposed to high temperatures and flames. This product contains calcium nitrate which, in its dry form, acts as an oxidizer to initiate and sustain the combustion of flammable materials. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. See a physician if skin becomes irritated.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person drink milk, egg whites, or large quantities of water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to a person who is unconscious, having convulsions, or unable to swallow.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician. If necessary, use artificial respiration to support vital functions.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Noncombustible.
Test Method:	Not pertinent.
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Fumes of toxic nitrogen oxides when exposed to high temperatures and flames. This product contains calcium nitrate which, in its dry form, acts as an oxidizer to initiate and sustain the combustion of flammable materials.
Extinguishing Media:	Water spray, foam, dry powder or CO ₂ .
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering drinking water supplies or streams.
Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation: Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage: Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store in contact with strong alkalis, acids, oxidizing agents. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with soap and water after handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

Skin: Impervious gloves and clothes.

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).

Ventilation: Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Brown liquid.
Odor:	Slightly sweet.
pH:	6.5 – 7.5.
Vapor Pressure:	Not available.
Vapor Density (Air=1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Not available.
Density:	10.9 – 11.1 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Not available.
Incompatibility:	Contact with readily oxidizable or flammable liquids.
Hazardous Decomposition Products:	Fumes of toxic nitrogen oxides at high temperatures.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Irritant. May cause redness and burning.
Skin:	Irritant, especially from prolonged exposure. May cause redness, drying and cracking.
Ingestion:	Ingestion of large quantities can be serious or even fatal. May cause stomach cramps, nausea, dizziness, convulsions, collapse.
Inhalation:	None expected but aerosol mist may cause mild irritation of nasal mucous membranes.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T. Shipping Description:	Not D.O.T. Regulated.
Other Shipping Description:	Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Gar Tootelian, Inc. and/or the third party preparer do not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Gar Tootelian, Inc. and/or the third party preparer assumes legal responsibility.