

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CompleSal® Calcium Fluid**
Supplier: Precision Laboratories, LLC
1429 S. Shields Drive
Waukegan, IL 60085
Product Use: Fertilizer
CAS Number: Proprietary
Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300
For MSDS, Product Safety or Regulatory inquiries, call: (847) 596-3001
Customer Service, call: (800) 323-6280

2. HAZARDS IDENTIFICATION

Hazard Components: Nitric acid, ammonium calcium salt



Primary Routs of Exposure: Eyes and Skin

Ingestion: Harmful if swallowed.
Eye Contact: Causes serious eye damage.
Skin Contact: May cause irritation and reddening.
Inhalation: May cause respiratory and mucosal irritation.
Other Effects: Harmful to aquatic life with long lasting effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Weight %</u>
Nitric acid, ammonium calcium salt	15245-12-2	50%-60%
Manganese (II) chloride monohydrate	64333-01-3	1%-2%
Zinc chloride	7646-85-7	0.25%-1%
Boric acid	10043-35-3	0.1%-1%

4. FIRST AID MEASURES

If in Eyes: Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

If on Skin: Wash affected area with plenty of soap and water. Cold water may be used. Get medical attention if irritation develops.

If Swallowed: Call a poison center or doctor/physician. Rinse mouth with water and then drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Give never give fluids or force vomiting if the person is unconscious, is having convulsions or has no gag reflex.

If Inhaled: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Get emergency medical help if breathing is difficult.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

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5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray, foam, CO₂, or dry chemicals may be used in areas where this product is stored.

Specific Hazards: The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapors. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Wear NIOSH/MSHA-approved respirator and protective equipment. Control spill with adsorbent pads or booms. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal.

Environmental Precautions: Ensure the product does not reach ground water, bodies of water or drainage system.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Keep container closed. Wear appropriate equipment and clothing to prevent repeated or prolonged skin contact as referenced in Section 8 below. Product should be stored in original container and in a dry place with temperatures above 40°F and below 104°F. Partially used containers should be resealed between uses for maximum storage stability. Do not store with food, beverages or animal feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: N/D

Eye/Face Protections: Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear chemically impervious gloves, long-sleeved shirt, pants, socks and shoes to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.

Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk or the work area per ANSI Z358.1-1990.

Personal Protection in Case of Large Spill: Splash goggles, full suit, boots and gloves.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Aqueous Crystal Suspension	UEL:	N/D
Odor:	Product Specific	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	4	Vapor Density:	N/D
Melting Point:	N/D	Relative Density:	1.5 g/cm ³
Freezing Point:	N/D	Solubility:	200 g/l
Boiling Point:	N/D	Partition Coefficient:	N/D
Flash Point:	N/D	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	Non Flammable		

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Temperatures above 104°F, prevent product from drying up.
Incompatible Materials:	Organic combustible substances, reducing agents.
Hazardous Decomposition Products:	will not occur if used correctly.
Thermic Decomposition Products:	If larger quantities of the product are on fire, the formation nitrous gas is possible.

11. TOXICOLOGICAL INFORMATION

Mixture:	
LD ₅₀ (oral, rat):	ATE 825,143 mg/kg.
Nitric acid, ammonium calcium salt:	
LD ₅₀ (oral, rat):	> 300 mg/kg.
Zinc chloride:	
LD ₅₀ (oral, rat):	1100 mg/kg.
Manganese (II) chloride monohydrate:	
LD ₅₀ (oral, rat):	250 mg/kg.

12. ECOLOGICAL INFORMATION

The following applies to nitrates in general: may contribute to the eutrophication of water supplies.
Hazardous for drinking water. Ensure that the product does not reach the ground-water, water bodies or the drainage system.
No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers:	Waste Code (EWC-No.): 02 01 08 Waste Name: Agrochemical waste containing dangerous substances.
Disposal Instructions:	Disposal of contaminated packages in accordance with the local official disposal regulations.
Container Reuse:	An empty container can contain product residue, and should be not reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail):	Not Regulated
IATA Status (Air):	Not Regulated
Marine Pollutant:	Yes

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15. REGULATORY INFORMATION

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

SARA HAZARD: No

16. OTHER INFORMATION

Date Prepared: January 28, 2014

Last Updated: January 28, 2014

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.