

**Product Name: THRIVE****Product ID # 761****Section I MANUFACTURER'S INFORMATION**

Manufacturer's Name & Address	Emergency Telephone Number:	509-547-8234
Northwest Agricultural Products	Number for Information:	509-547-8234
P.O. Box 3453	Date Revised:	March 2, 2010
821 S. Chestnut	Date Reviewed:	April 8, 2013
Pasco, WA 99302-3453		

**Section II PRODUCT IDENTIFICATION**

PRODUCT NAME:	Thrive
COMMON SYNONYMS:	Calcium Chloride
HEMICAL FAMILY:	Calcium Chloride Cacl <sub>2</sub> , Calcium Amino Acid
FORMULA:	Cacl <sub>2</sub> Calcium Chloride
FORMULA WT.:	N/A
NIOSH/RTECS NO.:	GL8900000
HEALTH	- 2 Moderate
FLAMMABILITY	- 0 None
REACTIVITY	- 0 None
CONTACT	- 2 Moderate

**U.S. PRECAUTIONARY STATEMENT**

**WARNING:** Causes irritation. Harmful if swallowed. Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

**INTERNATIONAL STATEMENT**

Harmful if swallowed. Irritating to respiratory system and skin. After contact with skin, wash immediately with plenty of soap and water. If irritation occurs, get medical attention.

**Section III PHYSICAL DATA**

Boiling Point:	@ 760 mm Hg 115.5 C
Melting Point:	653 C (1207 F) Decomposes
Vapor Pressure (MMGH):	N/A
Vapor Density (AIR=1):	N/A (AT 760 MM HG)
Specific Gravity: (H2O=1):	1.71
Evaporation Rate:	N/A
Solubility (H2O):	Appreciable (10%)
% Volatile by Volume:	0 (21 C)
pH:	8 @ 100 GM/L (Range 4-5)
Physical State:	Liquid
Coefficient water/oil distribution:	N/A
Appearance & Odor:	Light Brown liquid, slight odor

**Section IV FIRE AND EXPLOSION DATA**

Flash Point (closed cup):	N/A	Auto Ignition Temperature	N/A
Flammable Limits:	Upper - N/A	Lower - N/A	
Fire Extinguishing Media:	Extinguishing Media appropriate for surrounding fire.		
Special Fire Fighting Procedures:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.		
Unusual Fire & Explosion Hazards:	Decomposes at melting point		
Explosion Data-Sensitivity to mechanical impact:	None		
Explosion Data-Sensitivity to static discharge	None		

**Section V HEALTH AND HAZARD DATA**

Threshold limit value (TLV/TWA):	1 mg/m <sup>3</sup>
TLV is for Calcium, dusts and mists, as CU.	
Short-term exposure limit (stel):	Not Established.
Permissible exposure limit (pel):	1 mg/m <sup>3</sup>
Carcinogenicity:	None Identified.
Productive effects:	None Identified.
Effects of overexposure:	None Identified.
Inhalation:	Inhalation of mist may cause irritation of the respiratory tract.
Skin contact:	Irritation
Eye contact:	Irritation
Skin absorption:	None identified.
Ingestion:	Nausea, vomiting, diarrhea, abdominal distress.

Chronic effects: No known chronic effects.  
Target organs: Eyes, skin and blood.  
Medical conditions generally aggravated by exposure: None Identified.  
Primary routes of entry: Inhalation, ingestion, skin contact, and eye contact.

**EMERGENCY FIRST AID PROCEDURES**

Ingestion: Call physician. If swallowed, if conscious give large amounts of water. Induce vomiting.  
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Skin contact: In case of contact, flush skin with water.  
Eye contact: In case of eye contact, immediately flush with plenty of water for at least fifteen minutes.

**SARA/TITLE III HAZARD CATEGORIES AND LISTS**

Acute: Yes	Chronic: Yes	Flammability: No
Pressure: No	Reactivity: No	Extremely hazardous substance: No

**Section VI REACTIVITY DATA**

Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to avoid:	Heat
Incompatibles:	Strong reducing agents, strong oxidizing agents magnesium.

**Section VII SPILL & DISPOSAL PROCEDURES**

Steps to be taken in the event of a spill or discharge:  
Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover, remove from area. Flush spill area with water.  
Disposal procedure:  
Dispose in accordance with all applicable federal, state, and local environmental regulations.

**Section VIII INDUSTRIAL PROTECTIVE EQUIPMENT**

Ventilation requirements:  
Ventilation is not usually required for calcium chloride solutions. Avoid creation of mist or spray, if present provide local exhaust systems and wear NIOSH/MSHA approved respiratory protection if airborne exposure is possible.  
Respiratory:  
Provide mist protection where applicable. Use NIOSH/MSHA approved respirators.  
Eye/skin protection:  
Safety goggles. uniform, rubber gloves are recommended.

**Section IX TRANSPORTATION INFORMATION**

Special Shipping Notes: This product is not regulated under national or international transport regulations.

**Section X STORAGE AND HANDLING PRECAUTIONS**

Storage requirements:  
Keep container tightly closed. Suitable for any general chemical storage area. Isolate from incompatible materials.

**Section XI ADDITIONAL INFORMATION**

Calcium chloride is not classified as a hazardous material under regulations of the hazardous materials transportation act. Dot labels, placarding and marking are not required.  
The food, drug, and cosmetic act (FDA) designated calcium chloride as a "multiple-purpose gras food substance" (21 CFR 184. 1193) and a general purpose food additive (21 CFR 582.1193) when used in accordance with good manufacturing practice (21 CFR 184.1 (b) 1 ).  
OSHA standard 29 CFR 1910. 1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material request that you, and it is your legal duty to, make all information in this material safety data sheet available to your employees.

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ORIGINAL DATE: January 9, 1996

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