

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Opti-CAL®
Product Code: 10100
Product Use: 12.1% Water-Soluble Calcium
Product Restrictions: For Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information
Manufacturer: Pace International, LLC
Address: 5661 Branch Road, Wapato, WA 98951
Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)
Supplier: See above.

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification:
Physical Hazard, Not classified
Health Hazards,
Acute Oral, Category 4
Eye damage/irritation, Category 2A
Environmental Hazards, Not classified

Hazard Symbols:



Signal Word:
WARNING

Hazard Statements:
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Other Hazards: None known.
Hazard(s) not otherwise classified (HNOC): None known.

Precautionary Statements:

Prevention Statements:
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective clothing, safety goggles or face shield and chemical resistant gloves.

Response Statements:

P301/317 IF SWALLOWED: Get medical help.
P330 Rinse mouth.
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337/317 If eye irritation persists: Get medical help.

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration (w/w %)
Calcium Chloride	10043-52-4	80 – 100*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments *US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. FIRST AID MEASURES

General Advice: Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

If on Skin: Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention.

If in 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 eye. If eye irritation persists: Get medical advice/attention.

If Swallowed: Immediately call a poison control center or doctor for treatment advice. Rinse mouth. Never give anything by mouth if victim is unconscious or is convulsing. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not induce vomiting unless told to do so by a poison control center or doctor.

If Inhaled: Move person to fresh air and keep comfortable for breathing. Call a physician if symptoms develop.

Most important Symptoms / effects, acute and Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Delayed:
Indication of any immediate medical attention and special treatment needed:

Symptoms may be delayed. Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Firefighters must wear full protective clothing including self-contained breathing apparatus
Firefighting equipment/instructions:	Use water spray to cool unopened containers and move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and Materials for Containment and Clean-Up:	Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. HANDLING & STORAGE

Precautions for safe handling	Avoid contact with eyes and skin. Avoid breathing vapor or mist. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Use good industrial hygiene practices in handling this material.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry, well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	No occupational exposure limits noted for the ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection:	Wear safety glasses with side shields, goggles or face shield. Eye wash station and washing facilities should be available.
Skin protection	
Hand protection:	Chemical resistant gloves.
Other:	Wear appropriate protective clothing.
Respiratory protection:	Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)
Thermal hazards:	Not available.
General hygiene considerations:	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Colorless to pale yellow	Vapor pressure:	Not available
Odor:	Odorless	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.34
pH:	11	Solubility:	Miscible with water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	
Pour Point:		Auto-ignition temperature:	Not available
Initial boiling point and boiling range:	212°F (100°C)	Decomposition temperature:	Not available
Flash point:	Not flammable	Viscosity:	Not available
Evaporation rate:	Not available	Explosive properties:	Not explosive.
Flammability (solid, gas):	Not applicable	Oxidizing properties:	Not oxidizing.

10. STABILITY & REACTIVITY

Reactivity hazards:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Keep away heat, sparks, open flames and other ignition sources.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:	Inhalation, Ingestion, Skin contact, Eye contact.	
Information on likely routes of exposure		
Ingestion	Harmful if swallowed.	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Prolonged or repeated contact may dry skin and cause irritation.	
Eye contact	Causes serious eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
Information on toxicological effects		
Acute toxicity	Harmful if swallowed.	
Components	Species	Test Results
Calcium chloride (CAS 10043-52-4)		
Acute		
Dermal		
LD50	Rabbit	>5000 mg/kg, ECHA
Inhalation		
LC50	Not available	
Oral		
LD50	Rabbit	1000 mg/kg, ECHA
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation.	
Exposure minutes	Not available	
Erythema value	Not available	
Oedema value	Not available	
Serious eye damage/eye irritation:	Causes serious eye irritation.	
Corneal opacity value	Not available	
Iris lesion value	Not available	
Conjunctival reddening value	Not available	
Conjunctival oedema value	Not available	
Recover days	Not available	
Respiratory sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	This product is not expected to cause skin sensitization.	
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
Carcinogenicity:	Not classifiable as to carcinogenicity to humans.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052):	Not listed	

Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Teratogenicity:	Not available.
Specific target organ toxicity - single exposure:	Not classified.
Specific target organ toxicity - repeated exposure:	Not classified.
Aspiration hazard:	Not an aspiration hazard.
Chronic effects:	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity	See below		
Ecotoxicological data			
Components	Species	Test Results	
Calcium Chloride (CAS# 10043-52-4)			
Crustacea EC50	Daphnia	52 mg/L, 48 hours	
Aquatic			
Fish LC50	Fathead minnow (Pimephales promelas)	3930 - 5360 mg/L, 96 hours	
Persistence/ degradability:	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil:	No data available.		
Mobility in general:	Not available.		
Other adverse effects:	No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal Regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	This product, in its original form and concentration, would not designate as a US federal hazardous waste when disposed.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).
Contaminated packaging:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Disposal methods:	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.

14. TRANSPORT INFORMATION

Transport of Dangerous Goods (TDG) Proof of Classification	Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.
U.S. Department of Transportation (DOT)	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
SARA 304 Emergency release notification	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	Yes

Classified hazard Categories

Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Not regulated.

SARA 313 (TRI reporting)

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Not regulated.

US STATE REGULATIONS

US - Texas Effects Screening Levels: Listed substance

Calcium chloride (CAS# 10043-52-4)

Listed

US. California Proposition 65

This product is subject to warning labeling under the California Proposition 65 regulation.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no) *
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

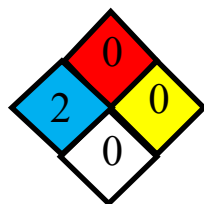
HMIS Ratings:

Health – 2

Flammability – 0

Reactivity – 0

NFPA Ratings:



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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

SDS preparation date: September 26, 2025

Replaces MSDS dated: January 26, 2024

Changes since last revision: Rebranding