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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name CELLSTRONG

Other means of identification

Product Code FRT-00312

 Document
 1000933803 1000933805 1000933806

 Synonyms
 CASCADIA FIELD TO YIELD BLEND

Recommended use of the chemical and restrictions on use

Recommended Use Foliar Nutrient.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Emergency telephone number

Company Phone Number Emergency Telephone 1-888-LPI-CUST (574-2878)

Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

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The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 - (H302)
Carcinogenicity	Category 1B - (H350)

Label elements





Signal word DANGER

Hazard statements
H302 - Harmful if swallowed
H350 - May cause cancer

Precautionary Statements - P201 - Obtain special instructions before use

Prevention P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required



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P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

Precautionary Statements -

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P330 - Rinse mouth

Precautionary Statements -

Storage

P405 - Store locked up

Precautionary Statements -

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Synonyms

CASCADIA FIELD TO YIELD BLEND.

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Calcium Nitrate	10124-37-5	30 - 60		*
Zinc Nitrate	7779-88-6	10 - 30		*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

OSHA Hazard Communication 29 CFR 1910.1200



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4. FIRST AID MEASURES

Description of first aid measures

Get medical attention if symptoms occur. General advice

Eve contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

Inhalation Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor

for treatment advice.

Call a poison control center or doctor for treatment advice. Have person sip a glass of water Ingestion

if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

No information available. **Symptoms**

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed. Have the product container or label with

you when calling a poison control center or doctor or going for treatment. You may also call

1-866-944-8565 for emergency medical treatment information.

Note to physicians Treat symptomatically.

Antidotes No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO2, dry chemical, or foam

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

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Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. See Section 12 for additional ecological

information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to

properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

Incompatible materials None known based on information supplied.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection Dependent on job function. If vapors or dusts exceed acceptable levels, wear a

MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air

respirator if exposure concentrations are unknown.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution

Color Black Odor Sweet

Odor threshold No data available

<u>Property</u> <u>Values (Remarks - Method)</u>

pH 3.6 (NEAT)
Melting point / freezing point No data available
Boiling point 100 °C / 212 °F
Flash point No data available
Evaporation rate No data available
Flammability (solid, gas) No data available

Flammability Limit in Air

No data available **Upper flammability limit:** Lower flammability limit: No data available No data available Vapor pressure Vapor density No data available **Specific Gravity** 1.359 g/ml Water solubility No data available Solubility in other solvents No data available Partition coefficient No data available **Autoignition temperature** No data available No data available **Decomposition temperature** Kinematic viscosity No data available No data available Dynamic viscosity No data available **Explosive properties** No data available **Oxidizing properties**

Other Information

VOC Content (%) No data available 10.75lbs/gal

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



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10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product:

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC50
Calcium Nitrate	= 302 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. Germ cell mutagenicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

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Chemical Name	ACGIH	IARC	NTP	OSHA
Calcium Nitrate 10124-37-5	-	Group 2A	-	Х
Zinc Nitrate 7779-88-6	-	Group 2A	-	X

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

No information available. Reproductive toxicity STOT - single exposure No information available. No information available. STOT - repeated exposure **Aspiration hazard** No information available.

Information on likely routes of exposure

Product Information No data available

Inhalation No data available.

No data available. Eye contact

Skin contact No data available.

Ingestion No data available.



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Calcium Nitrate	-	LC50 10000 mg/L 96 h Lepomis	LC50 2355 mg/L 120 h Daphnia
10124-37-5		macrochirus	magna
Zinc Nitrate	-	LC50 7.8 mg/L 96 h Cyprinus carpio	-
7779-88-6			

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or

equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/.

Do not contaminate water, food or feed by storage or disposal.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

UN/ID no Not regulated
Proper shipping name Not regulated

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED

FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)



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15. REGULATORY INFORMATION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Calcium Nitrate - 10124-37-5	1.0
Zinc Nitrate - 7779-88-6	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Nitrate 7779-88-6	1000 lb	X	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Γ	Zinc Nitrate	1000 lb	-	RQ 1000 lb final RQ
-	7779-88-6			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information



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16. OTHER INFORMATION

Prepared By Product Stewardship and Regulatory Affairs Reviewed By Environmental Health and Safety

07/11/2019 **Issue Date** 07/12/2019 **Revision Date**

Revision Note

New

CELLSTRONG is a trademark of Loveland Products, Inc.

Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

End of Safety Data Sheet