

**SAFETY DATA SHEET**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/25/2018

**FeATURE PRO LQ**

SUPERSEDES: 10/03/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

**Product Name** FeATURE PRO LQ

**Other means of identification**

**Product Code** FRT-0018A  
**Document** 1000279658  
**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Micronutrient.  
**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** 1-888-LPI-CUST (574-2878)  
**Emergency Telephone** 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.  
 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)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

**Label elements**



**Signal word**

**DANGER**

**Hazard statements**

H302 - Harmful if swallowed  
 H350 - May cause cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements -**

P201 - Obtain special instructions before use



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### Prevention

P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

### 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

\*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

<b>General advice</b>	(Get medical attention immediately if symptoms occur.)
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Take off contaminated clothing. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Call a poison control center or doctor for treatment advice. Have person sip a glass of water 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.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

<b>Treatment:</b>	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.
<b>Note to physicians</b>	Treat symptomatically.
<b>Antidotes</b>	No data available

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, 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.

#### Environmental precautions

**Environmental precautions** 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** Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** .

#### 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. Face protection shield.

**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**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Aqueous solution
<b>Color</b>	Dark brown
<b>Odor</b>	Musty
<b>Odor threshold</b>	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>	
<b>pH</b>	No data available	
<b>Melting point / freezing point</b>	No data available	No data available
<b>Boiling point</b>	No data available	No data available
<b>Flash point</b>	No data available	No information available
<b>Evaporation rate</b>	No data available	No data available
<b>Flammability (solid, gas)</b>	No data available	Not applicable
<b>Flammability Limit in Air</b>		Not applicable
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	No data available	No data available
<b>Vapor density</b>	No data available	No data available
<b>Specific Gravity</b>	1.21 g/ml	
<b>Water solubility</b>	Soluble in water	Soluble in water
<b>Solubility in other solvents</b>	No data available	No data available
<b>Partition coefficient</b>	No data available	No data available
<b>Autoignition temperature</b>	No data available	No data available
<b>Decomposition temperature</b>	No data available	No data available
<b>Kinematic viscosity</b>	No data available	
<b>Dynamic viscosity</b>	No data available	
<b>Explosive properties</b>	No data available	
<b>Oxidizing properties</b>	No data available	

**Other Information**

<b>VOC Content (%)</b>	No data available
<b>Density</b>	10.10lbs/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:**

Oral LD<sub>50</sub> 1390  
 Dermal LD<sub>50</sub> 5000

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

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Manganese Nitrate 10377-66-9	-	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*

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Chronic toxicity**

May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target Organ Effects**

blood, Central nervous system, Eye damage/irritation, Gastrointestinal tract (GI), kidney, liver, Respiratory system, Skin.

**Aspiration hazard**

No information available.

**Information on likely routes of exposure**

**Product Information**

No data available

**Inhalation**

No data available.

**Eye contact**

No data available.

**Skin contact**

No data available.

**Ingestion**

No data available.



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**12. ECOLOGICAL INFORMATION**

Ecotoxicity

96h LC<sub>50</sub> (fish - mg/l) No data available  
48h EC<sub>50</sub> (water flea - mg/l) No data available

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available  
**Ozone depletion potential (ODP)** 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**

<u>DOT</u>	Not regulated
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**

<u><b>NFPA</b></u>	Health hazards 2	Flammability 0	Instability 0	<b>Physical and Chemical Properties - Personal protection B</b>	
<u><b>HMIS</b></u>	Health hazards 2	Flammability 0	Physical hazards 0		
	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 %
Manganese Nitrate - 10377-66-9	1.0
Manganese Sulfate - 7785-87-7	1.0

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**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** Safety, Health and Environment

**Issue Date** 07/25/2018

**Revision Date** 07/25/2018

**Revision Note**

16 SDS sections updated

**FeATURE PRO LQ** is a registered 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**