

SAFETY DATA SHEET

SDS NUMBER: 1000115935-15-LPI SDS REVISIONS: FORMAT

SIGNATURE® 30-5-10 HIGH IRON FORMULA DATE OF ISSUE: 06/03/15 SUPERSEDES: 01/03/13

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER: FERTILIZER WITH DURATION® AND XCU® TRADE NAME: FERTILIZER WITH DURATION® AND XCU® SIGNATURE® 30-5-10 HIGH IRON FORMULA

1.2 RECOMMENDED USE: FERTILIZER FOR USE BY LANDSCAPE PROFESSIONALS

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24-Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Damage/Irritation Category 2B H320 STOT SE Category 3 H335

2.2 Label elements



Signal word: WARNING

Hazard Statement: H320 – Causes eye irritation.

H313 – May be harmful in contact with skin. H303 – May be harmful if swallowed. H335 – May cause respiratory irritation.

Precautionary

Statement: P264 – Wash hands and face thoroughly after handling. (Prevention): P261 – Avoid breathing dust / fume / gas / mist / vapors / spray.

P271 – Use only outdoors or in a well-ventilated area.

Precautionary

Statement: P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

(Response): easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: Get medical advice/attention

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 – Call a poison center or doctor/physician if you feel unwell.

Precautionary Statement:

(Storage): P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statement:

(Disposal): P501 – Dispose of contents/container in accordance with local, state and federal regulations.

2.3 Other hazards

None known

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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
Muriate of Potash	7447-40-7	16.75
Urea	57-13-6	65.80
Polymer Coating	Mixture	Trace
Monoammonium Phosphate	7722-76-1	9.80
Iron sucrate	Mixture	7.65
(complex mixture of Iron Oxide and	Sugar)	

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: 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. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

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: Move person 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.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eye irritation.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Foam, carbon dioxide (CO₂), dry powder, water spray. Do not use water jet as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, oxides of carbon and silicon dioxide can be released.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment 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

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors, dusts and spray mist and contact with skin and eyes. Ensure adequate

ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Avoid breathing dusts. Sweep up dry spills immediately and transfer to suitable containers for

possible land application according to label use or for disposal. Check local, state and federal

regulations for proper disposal. Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid inhalation of dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe

dusts, mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking

and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in original container. Keep tightly closed. Do not reuse empty container. Do not

contaminate water, food or feed by storage or disposal.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (AIHA) WEELs

Components	туре	value
Urea (CAS: 57-13-6)	TWA	10 mg/m ³
Particulates (PNOC**)	TWA	15 mg/m ³

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Specimen	
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No listings

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove

contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware

that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory

protection if exposure concentrations are unknown.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE : Granular solid

ODOR: Dusty.

ODOR THRESHOLD: No data available. COLOR: Multi-colored. pH: No data available.

MELTING POINT / FREEZING POINT: No data available BOILING POINT: No data available No data available FLASH POINT: No data available FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available. SOLUBILITY: Appreciable

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available VISCOSITY, dynamic: No data available SPECIFIC GRAVITY (Water = 1): 0.64 g/ml - 1.121 g/ml

BULK DENSITY: 40 lbs./ft³ – 70 lbs/ft³ / 640 kg/m³ – 1121 kg/m³

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.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBILE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact. LC₅₀ (rat): No data available

LD₅₀ Oral (rat): 2,600 mg/kg (Muriate of Potash); 8,471 mg/kg (Urea)

LD₅₀ Dermal (rat): No data available.
Acute Toxicity Estimates: No data available
Skin Irritation (rabbit): No data available
Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available
Germ Cell Mutagenicity: No data available

Interactive Effects: None known

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12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Ecotoxicological Data

 Components
 Species
 Test Results

 Muriate of Potash
 Gambusia affinis Daphnia magna
 435 mg/l, 96-hour LC₅₀

 Urea
 Daphnia magna
 149 mg/l, 48-hour EC₅₀

 Joaphnia magna
 3,910 mg/l 96-hour EC₅₀

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, DRY (NMFC 68140, SUB 5; CLASS 50)

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Health Least Flammability Slight Flammability Instability Moderate 0 Reactivity 2 3 High В PPE

**PNOC: Particulates, not otherwise classified

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SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Delayed	<u>Y</u> <u>N</u>	Fire Reactive	NN	Sudden Release of Pres	ssure <u>N</u>		
Reportable Quantity (RQ) under U.S. CERCLA: No listings SARA, Title III, Section 313: No listings RCRA Waste Code: Not listed CA Proposition 65: WARNING: This product contain chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.								
16. OTHER INFORMATION								
SDS STATUS: All sections reviewed; cl PREPARED BY: Registrations and Reg	J	t			REVIEWED BY: Envir	onmental Health and Safety		
®Signature is a registered trademark of	Loveland Produ	ucts, Inc.						
®Duration and XCU are registered trade	emarks of Koch	Agronomic Sen	vices LLC					

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