

SDS REVISIONS: FORMAT

DATE OF ISSUE: 10/11/17

# 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: TRADE NAME:

**RISER® F/A 7-17-3** 1.2 RECOMMENDED USE:

SEEDLING FORMULA FOR MULTIPLE CROPS

1.3 SUPPLIER DETAILS: LOVELAND PRODUCTS, INC.

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

WARNING

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

#### HAZARDS IDENTIFICATION 2.

#### 2.1 Classification of the substance or mixture Classificati ding to 20 CEB 1010 1200

Classification according to 29 CFR 1910.1200		
Acute Toxicity – Oral	Category 4	H302
Eye Damage/Irritation	Category 2A	H319
Skin Corrosion/Irritation	Category 2	H315
Acute Toxicity – Inhalation	Category 4	H332

## 2.2 Label elements

Signal word:



Hazard Statement:	H302 – Harmful if swallowed. H319 – Causes serious eye irritation. H315 – Causes skin irritation. H332 – Harmful if inhaled.
Precautionary	
Statement:	P260 – Do not breathe dust/fume/gas/mist/vapors / spray. P264 - Wash thoroughly after handling.
(Prevention):	P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment.
Precautionary Statement:	P280 – Wear protective gloves/protective clothing/eye protection/face protection.
(Response):	<ul> <li>P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</li> <li>P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.</li> <li>P304+P312 – IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.</li> <li>P310 – Immediately call a POISON CENTER or doctor / physician.</li> <li>P340 – Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P363 – Wash contaminated clothing before reuse.</li> <li>P391 – Collect spillage.</li> </ul>
Precautionary Statement: (Storage):	P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up.
2 Other hererde	

2.3 Other hazards None known



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#### COMPOSITION, INFORMATION ON INGREDIENTS 3.

#### 3.1 Substances

3.2 Mixtures

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Concentration [%]
Anhydrous Ammonia	7664-41-7	Trace to 0.9
Urea Ammonium Nitrate	15978-77-5	4.06
Manganese EDTA	68015-77-0	1.00
Iron HEDTA	17084-02-5	1.25
Copper EDTA	67989-88-2	Trace to 0.9
Zinc EDTA	14025-18-5	Trace to 0.3
Zinc Oxide	1314-13-2	1.08
Potassium Acetate	127-08-2	10.45
Ammonium Polyphosphate	68333-79-9	50.00
Fulvic Acid	479-66-3	2.50
Water	7732-18-5	23.95

#### FIRST AID MEASURES 4.

#### 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.
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.
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 centre or doctor. Do not give anything by mouth to an unconscious person.
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:

Inhalation: May cause respiratory irritation.

Eyes: Causes serious eye irritation. Skin: Causes skin 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.

Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure NOTES TO PHYSICIAN: should be directed at the control of symptoms and the clinical condition of the patient.



SAFETY DATA SHEET

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RISER® F/A SUPERSEDES: 04/18/14

# 5. FIRE FIGHTING MEASURES

# 5.1 EXTINGUISHING MEDIA: Suitable Extinguishing Media: 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Specific Hazards During Firefighting: 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.

# 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES			
Personal Precautions:	Avoid inhalation of vapors 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 CON	TAINMENT AND CLEAN-UP		
Methods for 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. After removal flush contaminated area thoroughly 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.		

# 7. HANDLING AND STORAGE

7.1	PRECAUTIONS FOR SAFE HANDLING: Advice on Safe Handling:	mists or ventilatio Handle a	Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists 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 Contai	ners:	Store in original containers only. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. Store in a cool, dry, well-ventilated place, preferably in a locked storage area away from children, feed and food products, and seed. Do not contaminate water, food or feed by storage or	

disposal.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Components</u>	Туре	Value
Ammonia	TWA	17 mg/m <sup>3</sup>
	STEL/CEIL (C)	$24 \text{ mg/m}^3$
Zinc Oxide	TWA	2 mg/m <sup>3</sup> R (Measured as respirable fraction of the aerosol.)
Ammonia	TWA	35 mg/m <sup>3</sup>
Zinc Oxide	TWA	5 mg/m <sup>3</sup> (Respirable fraction)
ogical limit values		



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#### 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: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks. **Respiratory Protection:** In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH approved respirator with approved 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	APPEARANCE :	Liquid		
	ODOR:	Mild.		
	ODOR THRESHOLD:	No data available.		
	COLOR:	Clear, blue green.		
	pH:	7.0 (neat)		
	MELTING POINT / FREEZIN	G POINT: 0°F / -17.8°C (Freezing point)		
	BOILING POINT:	212°F (100°C)		
	FLASH POINT:	Does not flash		
	FLAMMABILILITY (solid, gas): No data available.			
	UPPER / LOWER FLAMMABI	LITY OR EXPLOSIVE LIMITS: No data available.		
	VAPOR PRESSURE:	No data available.		
	SOLUBILITY:	Soluble		
	PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.			
	AUTO-IGNITION TEMPERATURE: No data available.			
	DECOMPOSITION TEMPERATURE: No data available			
	VISCOSITY:	996cP – 1020cP @ 70°F / 21.1°C		
	SPECIFIC GRAVITY (Water =	= 1): 1.272 g/ml		
	DENSITY:	10.62 lbs/gal   1.27 kg/L		
Note:	These physical data are ty	pical values based on material tested but may vary from sample to sample.		
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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** Will not polymerize.
- **10.4 CONDITIONS TO AVOID**

Storage, piping, or handling systems made of brass, copper and galvanized metals may be subject to mild corrosion from prolonged or repeated contact with this product.

#### **10.5 INCOMPATIBILE MATERIALS**

Strong oxidizers.

# **10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

May include but are not limited to oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen.



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# 11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. LC<sub>50</sub> (rat): 2,961 – 5,137 mg/m<sup>3</sup> (Ammonia – 1 HR). LD<sub>50</sub> Oral (rat): 350 mg/kg (Ammonia) LD<sub>50</sub> Dermal (rabbit): No data available. Acute Toxicity Estimates: No data available. Skin Irritation (rabbit): Causes skin irritation. Eye Irritation (rabbit): Causes serious eye irritation. 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

# 12 ECOLOGICAL INFORMATION

#### **12.3 ECOTOXICITY**

A toxic hazard to fish. Avoid spills or release to watercourses. 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** 

Species	Test Results
Fathead minnow	300.82 mg/L – 96 hour LC <sub>50</sub>
Daphnia magna	>300.82 – 48 hour EC <sub>50</sub>
Hypophthalmichthys nobilis)	0.3 mg/L – 96 hour LC <sub>50</sub>
Oncorhynchus mykiss	1.1 ppm – 96 hour LC <sub>50</sub>
Daphnia magna	98 μ/L – 48 hour EC <sub>50</sub>
	Fathead minnow Daphnia magna Hypophthalmichthys nobilis) Oncorhynchus mykiss

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 BIOAČCUMULATIVE 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**

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 <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a>. Do not contaminate water, food or feed by storage or disposal.

# 14 TRANSPORT INFORMATION

# 14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)



## 15 REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	1 Health 0 Flammability 0 Instability	0 Least 1 Slight 2 Moderate 3 High 4 Severe	<ol> <li>Health</li> <li>Flammability</li> <li>Reactivity</li> <li>PPE</li> </ol>
SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Y Delayed N		N Sudden Release of Pressure N

Reportable Quantity (RQ) under U.S. CERCLA: Ammonia (CAS: 7664-41-7) 100 lbs.; Copper compounds 5,000 lbs.; Manganese Compounds; Zinc Compounds (see 50 FR 13456, April 4, 1985)

SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7); Copper Compounds (N100); Manganese Compounds (N450); Zinc Compounds (N982) RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

#### 16 OTHER INFORMATION

**SDS STATUS:** Format revised. **PREPARED BY:** Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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