

Material Safety Data Sheet

J. R. Simplot Company

AgriBusiness

Trade Name: Six Iron Plus® with Umaxx®
Registration No: None

M21850

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufactured For:	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707	Product Name:	Six Iron Plus® with Umaxx®
		Common Name:	12-0-0 with Umaxx®
Emergency Phone - Chemtrec:	1-800-424-9300	Chemical Type:	Inorganic Chemical Fertilizer

SECTION 2

COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
Ferrous Sulfate Heptahydrate	7782-63-0	FeSO ₄ ·7(H ₂ O)	<50	1 mg/m ³ TWA (Iron salts, soluble, as Fe)	not available
Citric Acid	77-92-9	C ₆ H ₈ O ₇	<20 Non-Hazardous	not established	not available
Umaxx				not established	not available
Urea	57-13-6	(NH ₂) ₂ CO			
N-(n-butyl)-thiophosphonic triamide	94317-64-3	not available			
Organic nitrogen (dicyandiamide)	461-58-5	C ₂ H ₄ N ₄			
Other trace impurities and solvents	mixture	not available			

SECTION 3

HAZARDS IDENTIFICATION

Ingestion: Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems. May cause aggravation of mucous membranes if swallowed.

Inhalation: Prolonged inhalation of vapors may result in respiratory aggravation.

Eye Contact: Contact will cause discomfort to eyes.

Skin Contact: Contact with skin may cause discomfort and itching.

Effects of Overdose: Seek medical attention.

SECTION 4

FIRST AID MEASURES

Ingestion: DO NOT INDUCE VOMITING. Give plenty of water or milk. Seek immediate medical attention. Do not give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Seek medical attention if condition persists.

Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

Skin: Wash with soap and water. Seek medical attention if condition persists.

Notes to Physician: Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire, including water, foam, dry powder and carbon dioxide.

Special Fire Fighting Procedures: Wear approved positive-pressure, self-contained breathing apparatus. Foam system is preferred because uncontrolled water can spread possible contamination. Prevent run-off from entering drains, sewers or bodies of water.

Unusual Fire and Explosion Hazards: During extremely high temperature fire conditions, this product may decompose to release NH₃, SO_x, PO_x or CN.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers.

Steps to be taken in case material is released or spilled:
Absorb spilled material with an inert material. Sweep, vacuum or shovel material into a container for reuse or disposal. Do not allow product to contaminate drains, sewers, ditches or bodies of water. Prevent large quantities from contacting vegetation. Wood and cement may become stained. Wash with clear water before drying to prevent staining.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing:
Store in a cool, dry area in temperatures below 100°F (38°C). Avoid contact with eyes, skin, and clothing. Do not swallow. Keep lid tightly closed when not in use. Prevent spillage and separate from strong oxidizers, other pesticides, seed, feed, and foodstuffs. Use normal safety procedures and good personal hygiene. Keep out of the reach of children. Wash thoroughly after handling.

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Approved respirator when necessary.
Protective Clothing: Normal clean work clothing; impervious gloves and boots.
Eye Protection: Safety glasses with side shields or goggles may be necessary.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	250°	Solubility in Water:	Miscible
Vapor Density:	>1	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	<17 @ 25°C
pH:	3.0 – 3.5	Reaction with Water:	None
Appearance:	Clear green liquid with bland odor.	Specific Gravity:	1.23 (10.3 lbs/gal)
Extinguishing Media:	Use media suitable to extinguish source of fire.		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures.
Incompatibility (Material to Avoid): Strong bases may ruin this product.
Hazardous Decomposition Products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x or CN.
Hazardous Polymerization: Will not occur

SECTION 11

TOXICOLOGY INFORMATION

	<u>Oral LD50</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hour</u>	<u>Aquatic (other)</u>
Citric Acid	3 gm/kg (rat)	none listed	none listed	none listed
Ferrous Sulfate Heptahydrate	1,520 mg/kg (mouse)	none listed	none listed	none listed
Urea	14,300 mg/kg (rat)	none listed	> 9,100 mg/L	> 10,000 mg/L (daphnia)

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Dispose of small amounts with inert resorbent materials and dispose of according to regulations by applying to soil using good agricultural practices and soil management.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Not regulated by DOT	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity (RQ):	None	Haz Waste No:	None
Labels Required:	None	EPA Regist No:	None
Placard:	None		

SECTION 15

REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)

Not on the 302 list of SARA reportable quantities.

This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986, requires notification of potential exposure to substances identified by the State of California as causing cancer, birth defects or other reproductive harm.

SECTION 16

OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

NFPA Rating **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Specific Hazards:** NA
This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association.

MSDS Version Number: 1

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Reviewed by: The Environmental, Health & Safety Department
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