



*Rooted in Science*

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

**Trade Name** Iron Maid 15-0-0

**SDS Date** October 14, 2019

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Use:** Foliar Nutrient

**Uses Advised Against:** To be used only where there is a recognized need. Do not exceed the appropriate dose rates.

#### 1.3 Details of the Supplier of the Substance or Mixture

**Manufacturer:** Floratine Products Group, Inc.  
355 East South Street  
Collierville, TN 38017  
+1 901-853-2898

#### 1.4 Emergency Telephone Number

**Emergency Spill Information** 1(800) 535-5053 for US and Canada (INFOTRAC)  
+1(352) 323-3500 for International Calls (call INFOTRAC collect)

**Other Product Information:** [cs@floratine.com](mailto:cs@floratine.com)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

**CLP/GHS Classification (1272/2008):**

Acute Toxicity Category 4 (H302)

Eye Irritation Category 2

Skin Irritation Category 2

**EU Classification (67/548/EEC):** Harmful, Irritant, Xi, Xn, R22, R36/38

#### 2.2 Label Elements

**Warning!**



**Hazard Phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation

H319 Causes serious eye irritation.

## Precautionary Phrases:

P264 Wash thoroughly after handling.

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

P280 Wear eye protection, face protection and protective gloves.

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

P501 Dispose of contents or container in accordance with national regulations.

**2.3 Other Hazards:** None**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Urea	57-13-6 / 200-315-5	20-40%	Not dangerous	Not hazardous
Iron Compound	7720-78-7 / 231-753-5	20-40%	Xn, Xi R22, R36/38	Met. Corr. 1 (H290) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)

See Section 16 for full text of GHS and EU Classifications.

**SECTION 4: FIRST AID MEASURES****4.1 Description of First Aid Measures****First Aid**

**Eye contact:** In case of contact with eyes, flush immediately with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention.

**Skin contact:** Wash with soap and water. Get medical attention if irritation develops or persists.

**Inhalation:** Remove victim to fresh air. Get medical attention if irritation develops or persists.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If the person is alert, have them rinse their mouth with water and sip one glass of water. Call a poison center or physician for advice. Never give anything by mouth to an unconscious or drowsy person.

**See Section 11 for more detailed information on health effects.**

**4.2 Most Important symptoms and effects, both acute and delayed:** Causes severe eye irritation or damage. May cause skin irritation. Swallowing may cause nausea and diarrhea.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention should not be needed unless large amounts are swallowed.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing Media:** Use media appropriate for the surrounding fire. Cool fire exposed containers with water.

**5.2 Special Hazards Arising from the Substance or Mixture**

**Unusual Fire and Explosion Hazards:** None

**Combustion Products:** Oxides of carbon, sulfur and iron.

**5.3 Advice for Fire-Fighters:** Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear appropriate protective equipment. Avoid direct contact with spilled material.

**6.2 Environmental Precautions:**

Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

**6.3 Methods and Material for Containment and Cleaning Up:**

Collect with an inert absorbent material and place in an appropriate container for disposal. Wash spill site with water. Contain large spills and collect as much liquid as possible into containers for use.

**6.4 Reference to Other Sections:**

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

## SECTION 7: HANDLING and STORAGE

**7.1 Precautions for Safe Handling:**

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Use reasonable care in handling. Do not eat, drink or smoke while using product. Wash thoroughly with soap and water after handling.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:**

Protect containers from physical damage. Keep from freezing. Keep containers closed. Empty containers retain product residues. Follow all MSDS precautions in handling empty containers. Store away from food and feed.

**7.3 Specific end use(s):**

**Industrial uses:** None identified

**Professional uses:** Foliar nutrient for turf

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:**

Chemical Name	US OEL	EU IOEL	UK OEL	Biological Limit Value
Urea	10 mg/m <sup>3</sup> TWA AIHA WEEL	None Established	None Established	None Established
Iron Compound	None Established	None Established	None Established	None Established

**8.2 Exposure Controls:**

**Recommended Monitoring Procedures:** None established.

**Appropriate Engineering Controls:** Good outdoor ventilation should be adequate under normal conditions of use.

### Personal Protective Measurers

**Eye/face Protection:** Chemical goggles recommended to avoid eye contact.

**Skin Protection:** Impervious clothing is recommended if needed to avoid skin contact.

**Hands:** Impervious gloves are recommended if needed to avoid skin contact.

**Respiratory Protection:** None needed under normal use conditions with adequate ventilation. If mists are excessive, an approved particulate respirator can be used. Use respirators in accordance with local and national regulations.

**Other protection:** Suitable washing facilities should be available in the work area.

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties

**Appearance:** Green Liquid

**Odor Threshold:** Not available

**Melting/Freezing Point:** Not determined

**Flash Point:** Not flammable

**Lower Flammability Limit:** Not applicable

**Upper Flammability Limit:** Not applicable

**Vapor Density(Air=1):** Not applicable

**Solubility:** Complete

**Autoignition Temperature:** None

**Viscosity:** Not applicable

**Oxidizing Properties:** None

**Molecular Formula:** Mixture

**Odor:** Slight ammonia and ferrous odor.

**pH:** 2.4-3.4

**Boiling Point:** 104-110°C

**Evaporation Rate:** Not applicable

**Vapor Pressure:** Greater than 1

**Relative Density:** 1.26

**Octanol/Water Partition Coefficient:** Not determined

**Decomposition Temperature:** Not determined

**Explosive Properties:** None

**Specific Gravity (H<sub>2</sub>O= 1):** 1.26

**Molecular Weight:** Mixture

**9.2 Other Information:** None available

## SECTION 10: STABILITY and REACTIVITY

**10.1 Reactivity:** Not reactive under normal conditions.

**10.2 Chemical Stability:** Stable.

**10.3 Possibility of Hazardous Reactions:** Contact with strong oxidizers may cause an exothermic reaction producing heat.

**10.4 Conditions to Avoid:** Avoid excessive heat and freezing.

**10.5 Incompatible Materials:** Incompatible with oxidizing agents.

**10.6 Hazardous Decomposition Products:** Decomposition may produce oxides of carbon, sulfur and iron.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on Toxicological Effects:**

**Potential Health Effects:**

**Eye Contact:** Causes irritation with redness, tearing and stinging.

**Skin contact:** Skin contact may cause irritation.

**Inhalation:** Excessive inhalation of dust may cause upper respiratory tract irritation.

**Ingestion:** Swallowing may cause gastrointestinal effects including nausea and diarrhea.

**Acute toxicity:** No acute toxicity data available for the product. Calculated ATE for the mixture: Oral 1022 mg/kg  
Iron Compound: Oral rat LD50 319 mg/kg; Dermal rat LD50 >2000 mg/kg  
Urea: Oral rat LD50: 8471 mg/kg

**Skin corrosion/irritation:** Iron compound is irritating to rabbit skin. Urea is not irritating to rabbit skin.

**Eye damage/ irritation:** Iron compound is irritating to rabbit eyes. Urea is slightly irritating to rabbit eyes.

**Respiratory Irritation:** No data available. Expected to cause only temporary irritation.

**Respiratory Sensitization:** No data available.

**Skin Sensitization:** Iron compound was negative in a mouse local lymph node assay.

**Germ Cell Mutagenicity:** Iron compound was negative in an in vitro mammalian chromosome aberration test and in an in vivo chromosome aberration assay.

**Carcinogenicity:** No data available. None of the components of this product are listed as carcinogens by IARC or the EU Dangerous Substances Directive.

**Reproductive Toxicity:** No data available. Not expected to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity:**

Single Exposure: No data available.

Repeat Exposure: No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:** No toxicity data available for the product.

Iron compound: No toxicity data available

Urea: 24 hr EC50 daphnia magna 10000 mg/L.

**12.2 Persistence and degradability:** Biodegradation is not applicable to inorganic substances such as Iron compound.

**12.3 Bioaccumulative Potential:** No data available.

**12.4 Mobility in Soil:** In the soil, product follows natural cycle to provide plant nutrients.

**12.5 Results of PVT and vPvB assessment:** Not required.

**12.6 Other Adverse Effects:** No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:**

Dispose in accordance with local/ and national regulations. Not considered hazardous waste according to EU regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated			

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

#### SECTION 15: REGULATORY INFORMATION

##### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

###### US Regulations

**CERCLA Section 103:** The normal application of fertilizers is exempt from CERCLA reporting. If an accidental release occurs, contact Floratine Products Group for information.

**SARA Hazard Category (311/312):** Acute Health Hazard

**SARA 313:** Products used in routine agricultural operations and fertilizers held for resale by retailers is excluded from SARA 313 reporting. Contact Floratine Products Group for additional information.

**California Proposition 65:** This product contains the following substances known to the State of California to cause cancer and/or reproductive harm (birth defects): Formaldehyde (50-00-0) 148.5 ppm (cancer)

###### International Chemical Inventories

**US EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory or exempt.

#### SECTION 16: OTHER INFORMATION

##### CLP/GHS Classification and H Phrases for Reference (See Section 3)

Acute Tox. 4 Acute Toxicity Category 4

Eye Irrit. 2 Eye Irritation Category 2

Skin Irrit. 2 Skin Irritation Category 2

Met. Corr. 1 Metal Corrosive Category 1

H290 May be corrosive to metals

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation.

This safety data sheet provides health and safety information. The product is to be used in applications consistent with best farming practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information data sheet is to the best of Floratine's knowledge correct as at the date of publication. Neither Floratine, importer or local supplier accepts liability for any loss or damage resulting from reliance on this information. Further information on this product may be obtained from the supplier whose name, address and telephone number will be found on the product container. The information provided herein is offered solely for your consideration, investigation and verification. This information herein is provided by Floratine in good faith as accurate at the time of writing but without guarantee. This information includes information which has been generated by other parties and provided to Floratine and which Floratine has not independently verified. The information provided herein relates only to the specific product designated and may not be valid if the product is used in combination with any other materials or in any process.