

# Safety Data Sheet Iron Humate

# Section 1 - Chemical Product and Company Identification

Product Name: Iron Humate

Product Use: Soil amendment

**Synonym:** Iron micronutrient, ferric humate

**Company Information: Administrative Office** 

Vigiron, a Florida General Partnership

201 W. Christina Blvd., Suite #3

Lakeland, FL 33813

Tel: 863-648-9555 Fax: 863-648-9556

Emergency Number: Tel: 863-648-9555

#### **Section 2 – Hazard Identification**

Emergency Overview: Not harmful or fatal if swallowed. Not harmful if inhaled. Eye contact may cause irritation. No toxic/ill effects under normal operating conditions.

**Ingestion:** Irritation of mucous membranes. This material is not toxic by ingestion.

**Inhalation:** May cause irritation of the upper respiratory tract.

**Skin:** Prolonged or repeated contact with product may cause skin irritation if not

Page 1/6

Rev. Date: 11/10/15

washed off affected areas. No data on skin sensitization.

**Eyes:** This product may cause irritation.

| Section 3 - Composition / Information On Ingredients |           |            |                  |                  |                  |
|--|-----------|------------|------------------|------------------|------------------|
| Ingredient   | CAS#      | Percentage | ACGIH<br>TLV     | OSHA<br>PEL      | STEL             |
| Water  | 7732-18-5 | 5-50       | N/A <sup>1</sup> | N/A <sup>1</sup> | N/A <sup>1</sup> |
| Iron   | 1309-38-2 | 18-36      | N/A <sup>1</sup> | N/A <sup>1</sup> | N/A <sup>1</sup> |
| Humic Matter*  | 1415-93-6 | 10-45      | N/A <sup>1</sup> | N/A <sup>1</sup> | N/A <sup>1</sup> |

<sup>\*</sup>Humic matter indicates a complex of humic, fulvic, tannic and other organic acids.

#### **Section 4 - First Aid Measures**

**Eyes:** Check for and remove any contact lenses. Flush eyes for 15 minutes with large amounts of water while holding eyelids apart.

**Skin:** Wash skin with soap and water.

**Inhalation:** Remove from exposure. Move to fresh air. Flush nose with water. Seek medical attention in case of continued irritation.

**Ingestion:** Do not induce vomiting unless directed by physician. Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious individual. Do not ingest large quantities of iron as it can cause gastrointestinal irritation. **Always seek medical attention if symptoms persist.** 

| Section 5 – Fire Fighting Measures |                       |   |                                 |  |
|------------------------------------|-----------------------|---|---------------------------------|--|
| Flash Point                        | N/A <sup>1</sup>      | Flammable Limits                              | UEL: N/A <sup>1</sup>           |  |
|                                    |                       | in Air  | LEL: N/A <sup>1</sup>           |  |
| Special Fire and                   | Substance itself does | Extinguishing                                 | Will not burn at                |  |
| Explosion                          | not burn. Not         | Media   | normal                          |  |
| Hazards                            | considered an         |   | temperatures. Use               |  |
|                                    | explosion hazard. At  |   | products                        |  |
|                                    | elevated temperatures |   | appropriate for                 |  |
|                                    | (>300 °F) the organic |   | surrounding fire                |  |
|                                    | fraction may burn to  |   | (e.g., CO <sub>2</sub> , water, |  |
|                                    | the decomposition     |   | foam, dry                       |  |
|                                    | products of water and |   | chemicals).                     |  |
|                                    | carbon dioxide.       |   |                                 |  |
| Special Fire Fighting Instructions |                       | No special precautions are necessary          |                                 |  |
|                                    |                       | under normal conditions. If stored in a       |                                 |  |
|                                    |                       | confined space, fine dusts in air may ignite. |                                 |  |
| NFPA                               |                       | HMIS  |                                 |  |
| Health 1                           |                       | 1   |                                 |  |
| Reactivity                         | 0                     | 0   |                                 |  |
| Flammability                       | 0                     | C   |                                 |  |
| 4 = Extreme/Seve                   | re 3 = High/Serious   | 2 = Moderate 1 =                              | Slight 0 = Stable               |  |

Rev. Date: 11/10/15

#### **Section 6 – Accidental Release Measures**

Review safety precautions before proceeding with cleanup.

**Spill Response:** No negative environmental impact. No special cleanup requirements. Spilled product should be contained, collected and re-used if there is no contamination. Use appropriate personal protection equipment.

Waste Disposal: No negative environmental impact. No special preparation required for disposal. Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is because the product's use, transformation, synthesis, mixtures, etc. may change the nature of the product. Dispose of any contaminated material in accordance with applicable federal, state, and local regulations.

Reportable Quantity Under CERCLA: N/A1

#### **Section 7 – Handling and Storage**

**Handling Requirements:** Ensure good ventilation/exhaust in the work environment. Use proper protective equipment when handling and applying. Handle in accordance with good industrial hygiene and safety practice.

**Storage Conditions:** Store in a dry, well ventilated area.

**Packaging:** Can be stored in suitable containers of various materials of construction.

#### **Section 8 – Exposure Control / Personal Protection**

**Engineering Measures:** Minimize dust accumulation. Use good ventilation/exhaust, especially in confined areas, to keep below OSHA TLV of 15 mg/m<sup>3</sup>.

**Eyes and Face:** Though typically not necessary, safety glasses with side shields or goggles may be worn to minimize dust from entering eyes.

**Respiratory:** No respirator is required under normal conditions of use. Adequate ventilation should be provided to keep dust below exposure limits. Wear appropriate mask or NIOSH/MSHA approved particulate respirator when dust is prevalent.

**Skin and Body:** Though not necessary, gloves may be worn. Thoroughly wash hands after handling.

**Shoes:** Wear closed toe shoes. Safety shoes are not necessary

Vigiron Safety Data Sheet Page 3/6 Rev. Date: 11/10/15

| Section 9 - Physical and Chemical Properties |                       |                 |                     |
|--|-----------------------|-----------------|---------------------|
| Melting Point                                | N/A <sup>1</sup>      | pH (apparent)   | 5.0-6.5             |
| Freezing Point                               | N/F <sup>2</sup>      | Solubility in   | Insoluble           |
|  |                       | Water           |                     |
| <b>Boiling Point/Range</b>                   | N/A <sup>1</sup>      | Flash Point     | N/A <sup>1</sup>    |
| Bulk Density (lb/ft <sup>3</sup> )           | 65                    | Vapor Pressure  | N/A <sup>1</sup>    |
| % Volatile                                   | N/A <sup>1</sup>      | Evaporation     | N/A <sup>1</sup>    |
|  |                       | Rate            |                     |
| Vapor Density (Air =                         | N/A <sup>1</sup>      | Molecular       | N/F <sup>2</sup>    |
| 1)   |                       | Weight          |                     |
| Odor Threshold                               | N/F <sup>2</sup>      | Odor            | Earthy, slight peat |
|  |                       |                 | aroma               |
| Flammability                                 | N/A <sup>1</sup>      | Upper/Lower     | N/A <sup>1</sup>    |
|  |                       | Flammability    |                     |
| Autoignition                                 | N/A <sup>1</sup>      | Decomposition   | >300 °F             |
| Temperature                                  |                       | Temperature     |                     |
| Appearance                                   | Dark brown solid with | Partition       | N/A <sup>1</sup>    |
|  | a soil texture        | Coefficient: n- |                     |
|  |                       | octanol/water   |                     |

# **Section 10 – Stability and Reactivity**

**Stability:** Stable under normal temperatures and storage conditions

Reactivity: Not reactive

**Decomposition Products:** The iron does not decompose. At elevated temperatures in the presence of oxygen, the organic fraction will convert to carbon dioxide and water.

Incompatibility: N/F<sup>2</sup>

Polymerization: Does not occur

### **Section 11 – Toxicological Information**

Page 4/6

Rev. Date: 11/10/15

This product is non-toxic.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH

# **Section 12 – Ecological Information**

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No information available. **Bioaccumulative Potential:** No information available.

**Mobility in Soil:** No information available. **Aquatic Toxicity:** No information available.

# **Section 13 – Disposal Considerations**

This material is not regarded as hazardous. If uncontaminated, spilled material can be collected and used. Observe all federal, state and local environmental regulations regarding its disposal.

| Section 14 - Transportation Information |  |               |                  |  |  |
|---|--|---------------|------------------|--|--|
|   | DOT  |               |                  |  |  |
| Proper Shipping Name                    | Iron Humate  | Hazard Class  | N/A <sup>1</sup> |  |  |
| NA/UN#                                  | N/A <sup>1</sup>   | DOT Labels    | N/A <sup>1</sup> |  |  |
| Packaging Group                         | N/A <sup>1</sup>   | DOT Placards  | N/A <sup>1</sup> |  |  |
| IMO/IMDG                                |  |               |                  |  |  |
| Proper Shipping                         | Iron Humate  | Hazard Class: | N/A <sup>1</sup> |  |  |
| NA/UN#                                  | N/A <sup>1</sup>   | IMO Label:    | N/A <sup>1</sup> |  |  |
| Packaging Group                         | N/A <sup>1</sup>   | Reportable    | N/A <sup>1</sup> |  |  |
|   |  | Quantity:     |                  |  |  |
| Shipping                                | No restrictions on types of shipping containers          |               |                  |  |  |
| Containers                              |  |               |                  |  |  |
| Shipping                                | This material is not regulated hazardous for any mode of |               |                  |  |  |
| Restrictions                            | transportation via air, sea, and land.                   |               |                  |  |  |
| Marine Pollutant                        | This material is not a marine pollutant.                 |               |                  |  |  |

### **Section 15 - Regulatory Information**

| SARA Title III Hazard Classification |    |                |                  |
|--------------------------------------|----|----------------|------------------|
| Acute                                | No | Chronic        | No               |
| Fire                                 | No | Reactivity     | No               |
| Pressure                             | No | Toxic Chemical | No               |
| Flammability                         | No | Canadian WHMIS | N/A <sup>1</sup> |
|                                      |    | Classification |                  |
| Extremely Hazardous Substance        |    | No             |                  |
| CERCLA Hazardous Substance           |    | No             |                  |

Page 5/6

Rev. Date: 11/10/15

#### **Section 16 - Other Information**

IMPORTANT!! Read this SDS before use or disposal of this product. Distribute the information to employees and any other persons who could be exposed to the product to ensure that they are aware of the information before use or other exposure.

Vigiron provides the information contained in each Safety Data Sheet ("SDS"), Technical Data Sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) in good faith and makes no representations as to its comprehensiveness or accuracy as of the date of publication. The information was drawn from reliable sources, but is subject to revisions. The SDSs. TDSs, and product information brochures are referred to collectively as the "Data Sheets". It is the responsibility of the user to obtain and use the most recent version of the Data Sheets. Each Data Sheet relates only to the specific product designated therein and may not be valid where such product is used in combination with any other materials or in any process. Furthermore, since the conditions and methods of use of the product and information are beyond the control of Vigiron, Vigiron expressly disclaims any and all liability as to any consequential damages or results obtained or arising from any use of the products or the information contained in the Data Sheets. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS CONCERNS THE DATA SHEETS OR THE RELATED PRODUCTS.

No statement made in the Data Sheets or by any employee or agent of Vigiron shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No employee, agent, distributor, or sales representative is authorized to vary the terms of the above paragraph, to make any statements, representations, or warranties inconsistent with the above paragraph, or to provide any information that is at variance with the above paragraph. All materials related to the product are subject in all respects to the above paragraph and to the extent that they are inconsistent with the above paragraph, the terms of the above paragraph shall control.

This SDS has been written in accordance with OSHA's Hazard Communication Standard 2012

ABBREVATIONS:  $N/A^1 = Not Applicable$   $N/F^2 = None Found$ 

Prepared by: Fred D. Sims, Jr. Effective Date: 11/10/15

Rev. Date: 11/10/15