

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** Granular Iron Humate

### Manufacturer or Suppliers Details

**Company:** Vigiron

**Address:** 201 West Christina Blvd., Suite #3  
Lakeland, FL 33813 United States of America (USA)

**Telephone:** (863) 648-9555 ; Fax: (863) 648-9556

**In emergency call 911.**

### Recommended Use of the Product

Recommended use : Soil amendment

## Section 2: Hazard(s) Identification

### Emergency Overview

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

### Potential Health Effects

**Principle Routes of Exposure** : Eye contact; skin contact

**Chronic Effects** : Prolonged or repeated contact may cause skin irritation if not washed off affected areas.

**Aggravated Medical Conditions** : None known

**Environmental Hazard** : See Section 12 for additional Ecological Information.

## Section 3: Composition/Information on Ingredients

Substance/Mixture : Mixture

### Components

Chemical Name	CAS- No	Weight %
Humic Matter*	1415-93-6	10-42
Iron	1309-38-2	16-32
Water	7732-18-5	5-15
Binder		2-6

\*Humic matter indicates a complex of humic, fulvic, tannic, and other organic acids

#### Section 4: First-Aid Measures

<b>In Case of Skin Contact</b>	: Wash skin with soap and water. In the case of skin irritation or allergic reactions, seek medical attention.
<b>In Case of Eye Contact</b>	: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention if symptoms occur.
<b>If Inhaled</b>	: If inhaled, move to fresh air. Get medical attention if symptoms occur.
<b>If Swallowed</b>	: If ingested, DO NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not ingest large quantities of iron as it can cause gastrointestinal irritation. Get medical attention if symptoms occur.
<b>Notes to Physician</b>	: Treat symptomatically and supportively.

#### Section 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media</b>	: Will not burn at normal temperatures. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Special Fire and Explosion Hazards</b>	: Substance itself does not burn. Not considered an explosion hazard. At elevated temperatures (> 300°F) the organic fraction may burn to the decomposition products of carbon dioxide and water.
<b>Protective Equipment and Precautions for Fire Fighters</b>	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. No special precautions are necessary under normal conditions. If stored in a confined space, fine dusts in the air may ignite.

#### Section 6: Accidental Release Measures

<b>Personal Precautions</b>	: Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Avoid generation of dust. Do not breathe dust.
<b>Environmental Precautions</b>	: No negative environmental impact.
<b>Methods for Containment</b>	: No negative environmental impact. No special cleanup requirements. Spilled product should be contained,

	collected and re-used if there is no contamination. Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning up</b>	: No special cleanup requirements. 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.
<b>Section 7: Handling and Storage</b>	
<b>Handling</b>	: Wear personal protective equipment. Avoid contact with skin, eyes, or clothing. Avoid generation of dust. Ensure good ventilation/exhaust in the work environment. Handle in accordance with good industrial hygiene and safety practices.
<b>Storage</b>	: Keep away from heat and sources of ignition. Store in a cool, dry and well-ventilated area. Can be stored in suitable containers of various materials of construction; keep containers properly labeled.
<b>Section 8: Exposure Controls/Personal Protection</b>	
<b>Engineering Measures</b>	: Minimize dust accumulation. Use good ventilation and exhaust, especially in confined areas, to keep below OSHA TLV of 15 mg/m <sup>3</sup> . Safety showers and emergency eyewash stations should be present and easily available onsite.
<b><u>Personal Protective Equipment</u></b>	
<b>Eye/Face Protection</b>	: Though typically not necessary, wear safety glasses with side shields (or goggles) to minimize dust entering eyes.
<b>Skin and Body Protection</b>	: Though not necessary, gloves may be worn. Thoroughly wash hands after handling.
<b>Respiratory Protection</b>	: No respirator is required under normal conditions of use. Adequate ventilation should be provided to keep dust below exposure limits. Wear an appropriate mask or NIOSH/MSHA approved particulate respirator when dust is prevalent.
<b>Hygiene Measures</b>	: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Keep away from food, drink, and animal feeding stuffs. Wash hands and face before breaks and

immediately after handling the product. Regular cleaning of equipment, work area and clothing are recommended.

### Section 9: Physical and Chemical Properties

<b>Appearance</b>	: Solid, dry
<b>Color</b>	: Dark brown, black
<b>Odor</b>	: Mild, slight sweet aroma
<b>Odor Threshold</b>	: No data available
<b>Physical State</b>	: Round granular solid
<b>pH</b>	: 5.0 – 6.5
<b>Hardness</b>	: 2.0 – 3.5
<b>Flash Point</b>	: No data available
<b>Autoignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: > 300°F
<b>Boiling Point/Range</b>	: No data available
<b>Melting Point/Range</b>	: No data available
<b>Flammability Limits in Air</b>	: No data available
<b>Water Solubility</b>	: Soluble
<b>Evaporation Rate</b>	: No data available
<b>Vapor Pressure</b>	: No data available
<b>Vapor Density</b>	: No data available
<b>Partition Coefficient n-octanol/water</b>	: No data available

### Section 10: Stability and Reactivity

<b>Chemical Stability</b>	: Stable under normal temperatures and storage conditions.
<b>Incompatible Products</b>	: None known

<b>Conditions to Avoid</b>	: Dust formation
<b>Hazardous Decomposition Products</b>	: The iron does not decompose. At elevated temperatures in the presence of oxygen, the organic fraction will convert to carbon dioxide and water.
<b>Hazardous Polymerization</b>	: Hazardous polymerization does not occur.
<b>Section 11: Toxicological Information</b>	
<b>This product is non-toxic.</b>	
<b>Carcinogenicity</b>	: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH
<b><u>Potential Health Effects</u></b>	
<b><u>Principle Routes of Exposure</u></b>	: Eye contact, skin contact, and respiratory system
<b><u>Acute Toxicity</u></b>	
<b>Eyes</b>	: May cause irritation.
<b>Skin</b>	: Prolonged or repeated contact with product may cause skin irritation if not washed off affected areas. No data on skin sensitization.
<b>Inhalation</b>	: May cause irritation of respiratory tract.
<b>Ingestion</b>	: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. This material is not toxic by ingestion.
<b>Section 12: Ecological Information</b>	
<b>Ecotoxicity</b>	: No negative environmental impact.
<b>Persistence and Degradability</b>	: Breaks down with water into the soil.
<b>Bioaccumulative Potential</b>	: No information available
<b>Mobility in Soil</b>	: No information available
<b>Aquatic Toxicity</b>	: No negative environmental impact.
<b>Section 13: Disposal Considerations</b>	
<b>Disposal Methods</b>	: This material, as supplied, is not a hazardous waste according to Federal regulation (40 CFR 261). If uncontaminated, spilled material can be collected and

used. This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Dispose of contents/containers in accordance with local regulations.

**Contaminated Packaging** : Dispose of in accordance with local regulations.

#### Section 14: Transport Information

**DOT** : Not regulated

**TDG** : Not regulated

**MEX** : Not regulated

**ICAO** : Not regulated

**IATA** : Not regulated

**IMDG/IMO** : Not regulated

**Shipping Containers** : No restriction on types of shipping containers.

**Shipping Restrictions** : This material is not regulated hazardous for any mode of transportation via air, sea and/or land.

**Marine Pollutant** : This material is not a marine pollutant.

#### Section 15: Regulatory Information

##### SARA 311/312 Hazard Categories

**Acute Health Hazard** : No

**Chronic Health Hazard** : No

**Fire Hazard** : No

**Sudden Release of Pressure Hazard** : No

**Reactive Hazard** : No

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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|---|---|
| <b>CWA (Clean Water Act)</b>  | : This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)  |
| <b>Clean Air Act, Section 112<br/>Hazardous Air Pollutants (HAPs)</b>                       | : This product does not contain any substances listed as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act (40 CFR 61).  |
| <b>CERCLA (Comprehensive<br/>Environmental Response<br/>Compensation and Liability Act)</b> | : This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. |

**U.S. State Regulations**

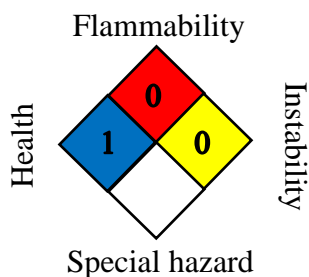
**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## Section 16: Other Information

### Further Information

#### NFPA:



#### HMIS® IV:

<b>HEALTH</b>	/	1
<b>FLAMMABILITY</b>		0
<b>PHYSICAL HAZARD</b>		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The “\*” represents a chronic hazard, while the “/” represents the absence of a chronic hazard.

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### Full Text of Other Abbreviations

ACGIH – American Conference of Governmental Industrial Hygienists; CAA – Clean Air Act; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CPR – Controlled Products Regulations; CWA – Clean Water Act; DOT – Department of Transportation; HAPs – Hazardous Air Pollutants; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; ICAO – International Civil Aviation Organization; IMDG – International Maritime Dangerous Goods Code; IMO – International Maritime Organization; MEX – Material Exchange (Recycling Council of British Columbia); MSHA – Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NFPA – National Fire Protection Association; NTP – National Toxicology Program; RCRA – Resource Conservation and Recovery Act; SARA – Superfund Amendments and Reauthorization Act; SDS – Safety Data Sheet; TDG – Transportation of Dangerous Goods; TLV – Threshold Limit Value; TSCA – Toxic Substances Control Act (United States)

**Sources of Key Data Used to Compile the Material Safety Data Sheet** : Internal technical data, data from raw material SDSs

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, procession, storage, transportation, disposal, and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing, and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

**End of Safety Data Sheet**