

# Material Safety Data Sheet

## Ironworks Brand- Water Soluble Powder(EDDHA Iron 6%)

### Section 1- Product and Company Identification

Product Name: EDDHA Iron

Trade Names:

Synonyms:

Chemical Formula:  $C_{18}H_{16}O_6N_2NaFe$

MSDS Creation date: April 2011

MSDS Current revision date: None

Distributed by: Ag Specialties; 12220 SW Grant Ave. Tigard, OR 97223; 877-601-7670

EMERGENCY: CHEMTREC (24 Hour Emergency Response) 1-800-424-9300

### Section 2- Composition/Information on Ingredients

Ingredient Name: Ethylenediamine-N',N'-bis(2-hydroxyphenylacetic acid), Ferric sodium complex

CAS Number: 16455-61-1

### Section 3- Hazards Identification

Not considered a hazardous product. Irritating to skin and eye and respiratory tract.

White Odorless Powder

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

Product may feed combustion.

Store away from heat.

Potential Health Effects: None known.

Signs and Symptoms of Exposure: irritation of skin and eyes and respiratory tract.

### Section 4- First Aid Measures

*Ingestion:* The mouth should be thoroughly washed out with water, if person is conscious, give large amounts of water. Do not induce vomiting. Seek medical attention.

*Eyes:* Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during flushing to ensure rinsing of entire surface of the eye and lids with water. Do not let victim rub eyes. Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

*Skin:* Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse and discard footwear which cannot be cleaned. Seek immediate medical attention if irritation occurs.

*Inhalation:* Move to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's aid. If not breathing, give artificial respiration. Seek medical attention.

### **Section 5- Fire-Fighting Measures**

*Special Fire-Fighting Procedures:* As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full-faced, self contained breathing apparatus, and impervious protective clothing.

*Unusual Fire and Explosion Hazards:* In case of fire or explosion, do not breathe fumes. Nitrogen and sulfur oxides may develop.

*Hazardous Combustion Products:* In case of fire or explosion, do not breathe fumes. Nitrogen and sulfur oxides may develop.

### **Section 6- Accidental Release Measures**

*In Case of Spill:* Sweep spilled product and collect for reuse. Wash residue away. Do not contaminate drain. Soak up wash water with sand or absorbent material. Sweep up and dispose.

### **Section 7- Handling and Storage**

*Storage:* Keep container well closed and store in a dry, well ventilated place away from sunlight. The product is hygroscopic and photosensitive. Avoid extremes of temperatures.

### **Section 8- Exposure Controls/Personal Protection**

*Skin Protection:* Skin contact should be prevented through use of suitable protective clothing, PVC rubber gloves and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

*Respiratory Protection:* When dust standards are exceeded, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. Always wear NIOSH approved particulate respirator.

*Eye Protection:* Use chemical safety glasses with side shields or splash proof goggles and face shield. Maintain eye wash fountain and quick-drench facilities in work area.

*Other Protection:* Product is easily removed with soap and water. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

*Ventilation Protection:* Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

*Exposure Limits:* No specific recommendations.

*Hygienic Practices:* Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing and launder before reusing. Cleanse skin thoroughly after contact, before meals and end of work period.

### **Section 9- Physical and Chemical Properties**

Appearance: Dark brown powder

Molecular Weight: 435.2

Boiling Point: N/A

Melting Point: Breaks down without melting  
Specific Gravity: 0.7g/cm<sup>3</sup>  
Vapor Pressure: N/A  
Reactivity in Water: None  
Water Solubility: 30g/100ml (20 C)  
PH Value (1% solution): 7-9

### **Section 10- Stability and Reactivity**

Stable under recommended storage and handling conditions.  
Conditions to Avoid: None  
Incompatible Materials: The liquid solution develops hydrogen upon contact with copper or aluminum.  
Hazardous Decomposition Products: Toxic fumes of nitrogen and sulfur oxide at temperatures above the decomposition temperature.  
Polymerization Conditions to Avoid: None

### **Section 11- Toxicological Information**

*Eye Effects:* No data found  
*Skin Effects:* No data found  
*Dermal Toxicity:* No data found  
*Inhalation Effects:* No data found  
*Sensitization:* No data found  
*Ingestion Effects:* No data found  
*Carcinogenicity/Mutagenicity:* Not listed as a carcinogen by NTP, IARC or OSHA. No information found on mutagenicity.  
*Reproductive Effects:* No data found  
*Neurotoxicity:* No data found  
*Target Organs:* No data found

### **Section 12- Ecological Information**

No experimental ecological data is available for this product.

### **Section 13- Disposal Considerations**

*Product:* According to local regulations.  
*Contaminated Packaging:* No specific recommendations.

### **Section 14- Transport Information**

*Product Shipping Name:* Ethylenediamine-N',N'-bis(2-hydroxyphenylacetic acid), Ferric sodium complex EDDHA-FeNa  
*Label Requirement:* None  
*Packing Group:* None  
*UN:* None  
*CAS#:* 16455-61-1

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

*Product Label Name:* Ethylenediamine-N',N'-bis(2 hydroxyphenylacetic acid), Ferric

sodium complex EDDHA-FeNa

**Section 16- Other Information**

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