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Product Name: Ferrous Fumarate BP/USP
Synonyms: 2-butanedioic acid (E)-, iron (2+) salt (1:1); fumaric acid, iron (2+) salt; Cpiron: iron fumarate
CAS No.: 141-01-5

Physical Data:

Appearance:	Reddish-brown, reddish orange fine powder, odorless, tasteless
Solubility:	slightly soluble
Vapor pressure:	N/A
Melting point:	decomposes above 280°C
Boiling point:	decomposes
Specific gravity:	2.44
Vapor Density:	N/A
Reactivity in Water:	N/A

Fire and Explosion Information:

General Hazard:	This material is assumed to be combustible. As with all Dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate build-up of static electricity. When heated to decomposition material emits toxic fumes.
Firefighting Media:	Water spray, dry chemical, Carbon dioxide or foam as appropriate for surrounding fire and materials. Must wear MSHA/NIOSH approved self-contained breathing apparatus and protective clothing.
Hazardous Decomposition Products:	oxides of iron

Reactivity Data: Generally stable when properly stored.

Incompatible Materials and Conditions to Avoid: Acids (mineral) and high temperatures

Hazardous Polymerization: None

Spillage, Storage, and Disposal Information:

Spillage: Dusts may be explosive. Remove all sources of ignition and ground all equipment before use. If wet, floors may become slippery. Wear appropriate protective gear and respiratory protection where particulates of unknown concentrations may be generated. Shovel spills into appropriate containers for disposal. To remove residue, wet with water, absorb with sand or vermiculite and place in compatible container for disposal. Keep out of sewers and open bodies of water.

Storage: Store in a cool, dry area. Keep containers closed. Use proper clothing and dust masks to insure that no contact occurs with the body. Avoid prolonged or repeated contact with skin, and inhalation of dust.

Disposal: Ensure compliance with government requirements and ensure conformity to local disposal regulations. Incineration is preferred method.

Protective Equipment:

Respirator:	Specific respirators selected must be based on levels of the substance in the workplace. They must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and The Mine Safety and Health Administration.
Clothing:	Clean body covering clothing recommended.
Gloves:	Rubber or neoprene gloves or other appropriate protective gloves
Eye protection:	Dust resistant chemical safety goggles recommended. Eye wash station. Contact lenses should not be worn when working with this material

Health Effects and First Aid:

Potential Health Effects:	May be irritating gastrointestinally, to eyes, and to skin. Non poisonous but may irritate upper respiratory tract
First Aid-Inhalation:	Remove to fresh air. If not breathing give artificial respiration.
First Aid Skin:	Wash with water & soap.
Eye contact - First Aid:	Immediately flush eyes with copious amounts of water. Seek medical help if irritation persists.
Ingestion-First Aid:	Dose 0.2 to 0.6 gm. daily in table form only large quantity may cause gastric distress, constipation, diarrhea, etc. Give 3-4 glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or stomach evacuation is necessary.

Toxicity Information:

oral LD50 rat:	3850 mg/kg (RTECS)
oral LD 50 mouse:	1570 mg/kg (RTECS)