

North America's
leading producer
of Ferrous Sulfate
products



Moist Ferrous Sulfate Heptahydrate

GENERAL

Diamond Brand® Moist Ferrous Sulfate Heptahydrate, also referred to as Moist Copperas, is the moist or wet crystalline form of ferrous sulfate containing 8% exterior or free water ($[\text{FeSO}_4 \cdot 7\text{H}_2\text{O}]\text{H}_2\text{O}$) and 44% interior water. It is derived from the processing of ilmenite ore in the manufacturing of the paint pigment titanium dioxide, or as a co-product from the pickling of steel.

APPLICATIONS

Diamond Brand Moist Ferrous Sulfate products are used as a reducing agent in the treatment of hazardous wastes and as a coagulant and flocculent in the treatment of sewage waste, industrial effluents, raw drinking water and other wastewater sources. In addition, it is used as a reducing agent in the removal of phosphates and odor causing hydrogen sulfide from various waste sources.

The agricultural, lawn and garden, and turf management industries use Diamond Brand Ferrous Sulfate to correct iron chlorosis or deficiencies in plants and soils, to eliminate moss, to reduce alkalinity, and as a trace element or micronutrient in fertilizers.



PHYSICAL PROPERTIES

A blue-green soluble salt having the consistency of wet salt, Moist Ferrous Sulfate Heptahydrate does not flow freely like the dried forms of ferrous sulfate and has to be mechanically fed when being mixed with water or other materials. Additionally, there may be inconsistent free water, iron and sulfuric acid contents, and compaction or caking in high humidity storage conditions. We recommend shipment in poly-lined dump trucks in bulk, or in lined bulk bags.





Moist Ferrous Sulfate Heptahydrate

CHEMICAL PROPERTIES

Iron.....	18% ± 0.5%
Sulfur.....	10%
Oxygen	21%
Water	51%

PACKAGING AND TRANSPORT MODES

- 2,000 Lb. poly-lined bulk bags via truck or rail
- Bulk via poly-line dump trucks or rail gondolas

TRACE MATERIALS (MAXIMUM PPM)

Shipping Point	Cape Girardeau, MO	North Lima, OH	North Lima, OH
Raw Material Source:	Titanium Dioxide	Steel Mill	Titanium Dioxide
Arsenic	1	1	1
Cadmium	2	4	2
Chromium	10	20	10
Copper	10	15	10
Lead	15	25	15
Magnesium	5,800	120	750
Manganese	2,100	2,000	2,100
Nickel	50	110	50
Zinc	500	500	500

Diamond Brand Ferrous (Iron) Sulfate products are registered in Canada as a Pest Control Product (PCP) under the Canadian PCP Act.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Information regarding the contents and levels of metals in this product is available at www.agr.wa.gov.

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