Summary Technical Data Sheet

Ferrous Sulfate Heptahydrate

Product Name: Ferrous Sulfate Heptahydrate

CAS: 7782-63-0

Formula: $FeSO_4 \cdot 7H2O$

Molecular Weight: 278.01 g/mol

Synonyms: Iron sulfate heptahydrate, Green vitriol, Ferrous sulfate heptahydrate, Presfersul, Copperas,

pH: 3.0 - 4.0 at 50 g/l at 25 °C

Melting point: 64 °C (147 °F)

Appearance: green crystalline solid

Odor: odorless

Product Specifications

Properties	Specifications
Total Iron	20 – 21 %
Water Insolubles	0.3 – 0.7 %
pH in 10% Solution	2.5 – 3.5

Ferrous Sulfate Heptahydrate is an efficient and economical source of iron that is water soluble and easy to handle. It has many applications in water treatment, pigment production, cement production, and agriculture.

Ferrous Sulfate products are used as reducing agents in the treatment of hazardous wastes and as a coagulant and flocculant in the treatment of sewage waste, industrial effluents, raw drinking water, and other wastewater sources. Iron sulfate is utilized in various industries as a primary source of iron and a key substance in water treatment processes, for removing magnesium and calcium ions from water. Among its applications are industrial wastewater treatment, phosphate removal in wastewater treatment, odour-causing hydrogen sulfide control, and its use in dyeing and refining industries.

It is an important precursor for other iron compounds and a source of iron in pigment production, including red, yellow, and black iron oxides.

It is an effective reducing agent, with applications in the reduction of chromate in cement to less toxic form, Cr(III).

Storage and Handling: Keep containers tightly closed in a cool, dark, ventilated place.

Packaging: 50 lb/22.68 kg and 1000 kg Super Sac

Transport Regulations: UN number: 3077 Class: 9 Packing group: III

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.

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