

PRODUCT IDENTIFICATION

**Product Name:** Ferric Chloride 20% Water Treatment Grade**CAS Number:** 7705-08-0**Molecular Formula:** Cl_3Fe **Molecular Weight:** 162.20 g/mol**Grade:** Technical Grade**Purity / Concentration:** 20%**Synonyms:** Not Available

PRODUCT OVERVIEW

Ferric Chloride 20% Technical Grade is a high-performance chemical solution specifically formulated for effective water treatment and industrial coagulation. This brown liquid serves as a reliable flocculant, ensuring consistent performance in demanding environmental and industrial applications.

Grade Significance: Technical Grade signifies that this product is manufactured for industrial applications where cost-effective, reliable performance is required rather than the extreme purity levels of reagent or food grades.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Brown liquid	Form	Liquid
Boiling Point	280°C (pure)	Melting / Freezing Point	37°C (pure)
Specific Gravity	1.195	Solubility	Highly soluble in water
Molecular Formula	Cl_3Fe	Molecular Weight	162.20 g/mol

APPLICATIONS

- Municipal Water Treatment** — Utilized as a primary coagulant to remove suspended solids and impurities, ensuring clear and safe drinking water standards.
- Wastewater Management** — Functions as an effective agent for phosphate removal and sludge conditioning in industrial and municipal treatment plants.
- Metal Processing** — Used as an etchant in the production of printed circuit boards and for various precision metal surface treatments.
- Chemical Manufacturing** — Acts as a versatile catalyst and reagent in organic synthesis and various laboratory-scale chemical processes.
- Pulp and Paper** — Applied in wastewater treatment streams within paper mills to improve water clarity and manage chemical oxygen demand.

STORAGE & HANDLING

Due to its corrosive nature and classification as a hazardous material, Ferric Chloride must be stored in compatible, corrosion-resistant containers like HDPE or rubber-lined tanks. Improper storage risks structural damage to metal surfaces and potential containment failure, which poses significant safety risks to personnel.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H412: Harmful to aquatic life with long lasting effects

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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