

PRODUCT IDENTIFICATION



Product Name: Ferric Chloride 20%

CAS Number: 7705-08-0

Molecular Formula: Cl_3Fe

Molecular Weight: 162.20 g/mol

Grade: Technical

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Ferric Chloride 20% is a high-quality technical grade liquid solution widely utilized for its effective coagulation and etching properties. This brown liquid provides consistent chemical performance for various industrial and laboratory applications.

Grade Significance: Technical grade indicates that the product is manufactured for industrial use where efficacy is paramount, though it is not intended for pharmaceutical or food-grade applications.

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

- Water Treatment** — It acts as a powerful coagulant to remove suspended particles and impurities from municipal and industrial wastewater streams.
- Electronics Manufacturing** — The solution is frequently used as an etchant for copper in the production of printed circuit boards and electronic components.
- Metal Processing** — It is utilized for metal surface treatment and cleaning, helping to prepare surfaces for plating or coating processes.
- Laboratory Research** — This chemical serves as a reliable reagent in general laboratory synthesis and analytical testing procedures.

STORAGE & HANDLING

Proper storage is critical because this product is corrosive and can cause severe skin burns or eye damage if handled improperly. It must be stored in compatible, corrosion-resistant containers to prevent leaks and maintain chemical integrity while ensuring the safety of 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:

- H302 (96.6%): Harmful if swallowed [Warning Acute toxicity, oral]
- H314 (75.4%): Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
- H315 (24.4%): Causes skin irritation [Warning Skin corrosion/irritation]
- H318 (24.5%): Causes serious eye damage [Danger Serious eye damage/eye irritation]
- H412 (72.4%): Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

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.

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