

DESCRIPTION

Ferrous Chloride Solution is a concentrated mineral acid solution ranging from 22-30% ferrous chloride. The empirical formula is $Fe_2^+ + 2Cl^-$.

APPLICATIONS AND BENEFITS

Ferrous Chloride Solution is an excellent source of Fe_2^+ ions where the application calls for an oxidizable, inorganic metal salt. Ferrous Chloride Solution is often the product of choice in the following applications.

Municipal and Industrial Wastewater Treatment

- Hydrogen Sulfide (H_2S) gas and odor reduction
- Phosphate removal in aerobic wastewater treatment systems
- BOD (Biological Oxygen Demand) and TOC (Total Organic Carbon) removal in aerobic wastewater treatment systems

Note: Ferrous Chloride does not provide traditional coagulating functions.

SAFETY

Ferrous Chloride Solution is a corrosive mineral acid that has the following ratings:

	0	1	2	3
HEALTH			▲	
FLAMMABILITY	▲			
REACTIVITY		▲		
CONTACT			▲	
	NONE	SLIGHT	MODERATE	SERIOUS

Protective Equipment: Goggles, Long Sleeves and Gloves

Thoroughly read and understand the information presented in the Material Safety Data Sheet prior to using Ferrous Chloride Solution in laboratory, pilot plant and/or full plant applications.

STORAGE AND HANDLING

Storage tanks and piping for Ferrous Chloride Solution should be constructed of materials recommended for corrosive products. FRP, PVC, HDPE and/or rubber are the materials of choice for piping and storage tanks. Metering pumps and other equipment that comes in contact with concentrated solutions of Ferrous Chloride must also be constructed of acid resistant materials such as PVC and rubber. No wetted parts should contain any metals such as carbon steel, stainless steel, brass or aluminum.

Hazard class: 8-Corrosive

Label: Corrosive

ID Number: NA1760

Packing group: II



PRODUCT ADDITION CONSIDERATIONS

Ferrous Chloride Solution should be fed as a concentrated solution provided that there is adequate mixing, to disperse the concentrated solution with the stream being treated. If there is not sufficient mixing then clean dilution water can be used to insure thorough distribution.

