

FERRIC NITRATE SOLUTION

Description

Ferric Nitrate Solution is a clear, reddish brown liquid that is produced using the highest quality iron. It can be used to correct iron deficiencies in soils and plants and it is also compatible with many liquid fertilizers, micronutrients, pesticides, and water. It mixes easily with ammonium nitrate solution, calcium nitrate solution, copper nitrate solution, magnesium nitrate solution, manganese nitrate solution and zinc nitrate solution.

Uses

- As a vital plant nutrient, ferric nitrate is used to provide a source of iron in both soil and foliar fertilizer applications
- In the manufacture of chelates, and agricultural micronutrients

Handling & Storage

Recommended storage above 32°F. Store in a well ventilated cool, dry place out of direct sunlight. Prevent from freezing. Containers should be kept closed and labeled properly. Liquid is an oxidizer and may cause fire with combustibles. Avoid contamination with combustible materials. Keep away from fire. Extreme heat may cause decomposing to toxic fumes of nitrogen oxides.

Environmental Considerations

Ferric nitrate solution contains ferric nitrate, a chemical recognized by the U.S. Environmental Protection Agency (EPA) as a hazardous substance subject to reporting to the National Response Center, as well as state and local authorities.

Shipping

Ferric Nitrate Solution is hazardous and classified as a corrosive liquid. The US Department of Transportation proper shipping name is: UN3093, Corrosive Liquid, Oxidizing, N.O.S. (Ferric Nitrate Solution), 5.1, PG II. The Emergency Response Guidebook Number is 154. Ferric Nitrate Solution transported in bulk must be placarded.



Chemical & Physical Properties

Chemical Formula	Fe(NO ₃) ₃
CAS Number	7782-61-8
Specific Gravity @ 60°F (17.8°C)	1.43
pH	< 2.0
Salt-Out Temp	-30°F (-34.4°C)
Color	Reddish to brown
Odor	No odor detected
Weight per Gallon	11.9 lbs/gal (1.43 kg/L)
Gallons per Ton	168.07 (0.64 L/kg)

Typical Analysis

Nitrogen (N)	7.0%
7.0% Nitrate Nitrogen	
Iron (Fe)	9.5%
Ferric Nitrate (Fe(NO ₃) ₃)	41.0%
Insoluble	< 0.01%
Chloride (Cl)	< 0.01%

The data presented herein are believed to be accurate but are in no way guaranteed. TradeMark Nitrogen Corp. makes no warranties, express or implied, that any of the above data is fit for any particular use and expressly disclaims all oral warranties of any kind.

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