



# Ferric Nitrate Solution, 30%

#### Section 1 - Identification

Product Ferric Nitrate Solution, 30%

Recommended Use: Utilized in industrial chemical applications

Manufacturer TradeMark Nitrogen Corp.

1216 Old Hopewell Road, Tampa, FL 33619

Phone (813) 626-1181 **24 Hour** Chemtrec **Emergency** (800) 424-9300

Contact

Address

### Section 2 - Hazard Identification



Signal Word: DANGER

## **Precautionary Statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P262 Do not get in eyes, on skin, or on clothing
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

**P284** Wear respiratory protection.

P301 IF SWALLOWED:
P331 Do NOT induce vomiting.
P313 Get medical advice/attention.

P303 IF ON SKIN OR HAIR:

P361 P353 Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P304 IF INHALED

P340 Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P313 Get medical advice/attention.

P305 IF IN EYES

P351 P338 Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 P313 If eye irritation persists: Get medical advice/attention.

P370 P378 In case of fire: Use water for extinction.

P410 P403 Protect from sunlight. Store in a well-ventilated place.

P402 Store in a cool, dry place.

#### Section 3 - Composition

		0.4.0		
Ingredients	Component	CAS. No.	Percent by Weight	Percent as Metal
	Ferric (III) Nitrate (Fe(NO <sub>3</sub> ) <sub>3</sub> )	10421-48-4	30.3%	7.0%
	Nitric Acid (HNO <sub>3</sub> )	7697-37-2	0-0.1%	
	Water (H <sub>2</sub> 0)	7732-18-5	Balance	

**Hazard Statements:** 

H303 May be harmful if swallowed

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

H373 May cause damage to organs through

prolonged or repeated exposure

Section 4 - Fir	st Aid Measures
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes.
Eye Contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medica attention if irritation persists.
Ingestion	If swallowed: <b>Do NOT induce vomiting</b> . Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	Harmful if swallowed or inhaled. Destructive to muccous membranes and upper respiratory tract, eyes and skin. Redness and irritation of tissue may occur.
Chronic Health Hazards	Excess iron intake can lead to cell damage, lipid peroxidation and DNA mutagenesis. In severe cases it can lead to hemochromatosis. Other chronic effects can include metabolic syndrome, type 2 diabetes, sarcopenia, non-alcoholic fatty liver disease and Alzhimer's and other neurodegenerative diseases.

Section 5 - Fir	e Fighting Measures
Suitable Extinguishing Techniques & Equipment	Non-combustible, but can contribute to the intensity of the fire. Wear self-contained breathing apparatus and full protective gear. Use water spray - not water jet
Chemical Hazards From Fire	This material may decompose and produce acrid vapors and oxides of nitrogen and carbon.
Special Fire	Use water spray. CO <sub>2</sub> or halon may provide limited control.

Procedures

NFPA Rating Health - 1 (Slight)

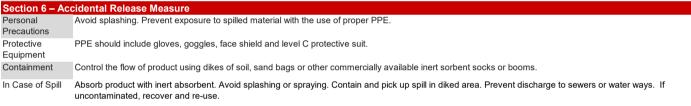
Fire - 0 (Least)

Reactivity - 1 (Slight)

Fighting

Other

Do not allow run-off from fire fighting to enter drains or water courses.



Section 7 – Safe Handling & Storage

Precautions for Safe Handling & Recommended storage above 40°F (4°C). Store in a well ventilated cool, dry place out of direct sunlight. Prevent from freezing. Containers should be kept closed and labeled properly.

Storage

Incompatibility Avoid contamination with combustible materials. Keep away from fire. Extreme heat may cause decomposing to toxic fumes of nitrogen oxides.

Section 8 – Ex	posure Controls /	Personal Protect	ion		
Exposure Limits	<u>.                                      </u>	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health
	Ferric (III) Nitrate (Fe(NO <sub>3</sub> ) <sub>3</sub> )	Not Established	Not Established	Not Established	Not Established
	Nitric Acid (HNO <sub>3</sub> )	2 ppm	2 ppm (TWA)	4 ppm	25 ppm
	Water (H <sub>2</sub> O)	Not Established	Not Established	Not Established	Not Established
Engineering Controls	Provide ventilation so	ufficient to maintain e	exposure below PEL/TM	/A/TLV. Washing facilities	s should be available.
Personal	Eyes	Chemical safety	goggles and full face shie	eld	
Protective	Hands	Chemical resistar	nt gloves with gaunlet.		
Equipment	Respiratory	None required ur	nder normal conditions.	Self contained respiratory	equipment should be used under spill situations.
	Protective Clothing	Chemical resistar	nt protective clothing.		
				N	
	Gloves	Goggles	Face Shield	Protective Clothing	

Section 9 - Physical & Chemical Properties Appearance and A reddish to brown liquid. Slight acrid Specific Gravity 1.1 - 1.4 Odor odor. **Boiling Point** > 212°F (>100°C) at 1 atmosphere Molecular Weight Not applicable Solubility in Water Freezing Point No Data Available No Data Available Vapor Pressure No Data Available Evaporative Rate No Data Available Weight per 10.90 lbs /gal nН 0.2 - 2.0 Gallon Salt-Out Temp < 40°F (4°C) Flash Point Not flammable Flammability Not flammable Auto Ignition Temp Not Flammable Limits UEL No Data Available LFL N/A

Section 10 - Stability & Reactivity

Reacts with strong alkaline substances. This product may react with reducing agents.

Stability
Product is stable under normal conditions.

Hazardous
Reactions
Conditions to
Avoid
Incompatible
Materials
Hazardous
Extreme heat may cause decomposing to toxic fumes of nitrogen oxides.

Decomposition Products

Section 11 - Toxicology Information

Routes of Exposure
Symptoms and Signs of Skin May cause eye damage
Signs of Skin Mild irritant.

Exposure Inhalation of gases or mist causes irritation to the upper respiratory system, including the mucous membranes of the nose, mouth and throat. Coughing, fever, nausea, irritability, spasms, possible pneumonia, apathy, headaches, weakness and chemical burns if inhaled.

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Ingestion may cause upset stomach.

Long Term Excess iron intake can lead to cell damage, lipid peroxidation and DNA mutagenesis. In severe cases it can lead to hemochromatosis. Other chronic effects can include metabolic syndrome, type 2 diabetes, sarcopenia, nonalcoholic fatty liver disease and Alzheimer's and other neurodegenerative diseases.

Carcinogen The International Agency for Research on Cancer has not classified ferric nitrate for its carcinogenic potential (IARC 1987).

Section 12 – Ecological Information

Water No Data Available

Section 13 – Disposal Considerations

Waste Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.

**Section 14 – Transport Information** 

This material is hazardous as defined by 49 CFR 172.101 by the US Department of Transportation

UN ID Number UN3093
Proper Shipping

Name UN3093, Corrosive Liquid, Oxidizing, N.O.S. (Ferric Nitrate Solution), 8(5.1), II

Hazard Class 8(5.1)
Packing Group PG II
US DOT Label Corrosive
Emergency 154
Response Guide
Number

3093

This material is regulated as a Dangerous Good per the IMDG Code

UN ID Number UN3093

Proper Shipping

Name UN3093, Corrosive Liquid, Oxidizing, N.O.S. (Ferric Nitrate Solution), 8(5.1), II

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Label Corrosive

This material is regulated as a Dangerous Good per the IATA Code

UN ID Number UN3093

Proper Shipping Name

UN3093, Corrosive Liquid, Oxidizing, N.O.S. (Ferric Nitrate Solution), 8(5.1), II

Hazard Class 8(5.1) Packing Group PG II

Packing 851 = 1 Liter Or Less 855 = More than 1
Instructions Liter (CARGO

Liter (CARGO AIRCRAFT ONLY)

Label Corrosive



Section 15 – I	Regulatory Inforr	mation					
United States - SARA Hazard			0	0 1 0	nulgated under Sections 311 and 312 of Title III of the Superfund Amen meet the following categories:		he Superfund Amendments ar
Category	Fire - No	Pressure - No	Reactive - Yes	Acute - Yes	Chronic - No		
SARA Title III Information	This product cont 1986 and 40 CFF	•	stances subject to the re	reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorizati		ments and Reauthorization Ac	
	Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting			
				302	304	313	_
	Ferric Nitrate	10421-48-4	N/A	No	No	Yes	
	Nitric Acid	7697-37-2	1,000 lbs (453.6 Kg)	Yes	No	Yes	
CERCLA / Superfund, 40 CFR Part 117, 302		e in pounds. If there is	,	,	, , ,	,	e designated in the above table er, Washington DC (800-424-
TSCA	Nitric acid, iron(3-	+) salt (3:1) is on the A	active TSCA inventory list	t.			
California Prop	Components of the	nis product are not list	ed on California's Prop 6	5 list.			

## Section 16 - Other Information

	10/21/2025
Issue Date	10/21/2025

Date of Revision October 2025 Section 9 technical data updated. April 2024 Section 14 Transportation Information updated. September 2022 UN Number & proper shipping name updated based on DOT laboratory testing results. March 2021 document prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global . Harmonization Standards.

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