FERRIC NITRATE

	CAUTION	NARY RESPO	ONSE INFORMATION	4.	
Common Sync	onyms	Solid	Green, colorless to pale Odorless	4.1 Flash Poi Not flam	
erric nitrate nonahy litric acid, iron(III) s	drate		violet	4.2 Flammabl 4.3 Fire Extin	
		Sinks and mixes w	nks and mixes with water.		
Keep people away. Avoid contact with solid and dus			and dust.	Used: N 4.5 Special H	
	nition sources	and call fire departm		Product nitric aci	
	iter intakes.	Ilution control agenci	les.	4.6 Behavior combust	
Fire	Not flammat	ble. e the intensity of a fi	intensity containe		
		arge area with water	4.7 Auto Ignit 4.8 Electrical		
Exposure	CALL FOR DUST	MEDICAL AID.		4.9 Burning F 4.10 Adiabatio	
	Irritating to e If inhaled wi	eyes, nose and throa Il cause coughing or	at. difficult breathing.	not avail 4.11 Stoichon	
	If breathing	has stopped, give ar		pertinent	
		is difficult, give oxyg	en.	4.12 Flame Te available	
		skin and eyes.		4.13 Combus Product	
		wallowed. ntaminated clothing a ed areas with plenty		4.14 Minimum Combus	
	IF IN EYES	, hold eyelids open a	nd flush with plenty of water. CONSCIOUS, have victim drink water or milk	5. CH	
	and have vi	ctim induce vomiting.		5.1 Reactivity	
		except keep victim wa		5.2 Reactivity Solutions	
Water	May be dan	gerous if it enters wa	aquatic life is unknown. ater intakes.	Contact cause fir	
Pollution	Notify local	health and wildlife of ators of nearby water	ficials.	5.3 Stability I 5.4 Neutralizi	
				5.5 Polymeriz	
CORRECTIVE	DESPONO	ACTIONS		5.6 Inhibitor	
I. CORRECTIVE Dilute and Stop disch	disperse	ACTIONS	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed.	6. W	
Stop disch	aige		 2.2 Formula: Fe(NO₃)₃·9H₂O 2.3 IMO/UN Designation: 5.1/1466 	6.1 Aquatic T Currently	
			2.4 DOT ID No.: 1466 2.5 CAS Registry No.: 10421-48-4 2.6 NAERG Guide No.: 140	6.2 Waterfow	
			2.6 NAERG Guide No.: 140 2.7 Standard Industrial Trade Classification: 52359	available 6.3 Biologica	
		3. HEALTH H		6.4 Food Cha	
		nent: Dust mask; goo	HAZARDS ggles or face shield; protective gloves	6.4 Food Cha	
 3.2 Symptoms Fol irritation of 3.3 Treatment of E induce von attention if 3.4 TLV-TWA: 1 m 	Ilowing Expos mouth and sto Exposure: INH niting if large an irritation persi- ng/m ³ (as iron)	nent: Dust mask; gog sure: Inhalation of du omach. Dust irritates IALATION: move to	HAZARDS ggles or face shield; protective gloves ust irritates nose and throat. Ingestion causes eyes and can irritate skin on prolonged contact. fresh air. INGESTION: give large amounts of water; wallowed. EYES: flush with water; get medical	6.4 Food Cha	
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4. FIRE HAZARDS 7. SHIPPING INFORMATION 7.1 Grades of Purity: Technical, 99.0%; Analytical 7.2 Storage Temperature: Ambient able Limits in Air: Not flammable 7.3 Inert Atmosphere: No requirement tinguishing Agents: Not pertinent 7.4 Venting: Open xtinguishing Agents Not to Be I: Not pertinent 7.5 IMO Pollution Category: C 7.6 Ship Type: 2 I Hazards of Combustion acid vapor may form in fires. 7.7 Barge Hull Type: Currently not available ior in Fire: In contact with 8. HAZARD CLASSIFICATIONS ustible materials, will increase the sity of a fire. Apply water to cool iners or spilled material. 8.1 49 CFR Category: Oxidizer 8.2 49 CFR Class: 5.1 gnition Temperature: Not pertinent 8.3 49 CFR Package Group: III cal Hazards: Not pertinent 8.4 Marine Pollutant: No g Rate: Not pertinent 8.5 NFPA Hazard Classification: Not listed atic Flame Temperature: Currently vailable 8.6 EPA Reportable Quantity: 1000 pounds 8.7 EPA Pollution Category: C nometric Air to Fuel Ratio: Not 8.8 RCRA Waste Number: Not listed • Temperature: Currently not able 8.9 EPA FWPCA List: Yes ustion Molar Ratio (Reactant to uct): Not pertinent 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid um Oxygen Concentration for bustion (MOCC): Not listed 9.2 Molecular Weight: 404.02 9.3 Boiling Point at 1 atm: Not pertinent (decomposes) HEMICAL REACTIVITY 9.4 Freezing Point: 117°F = 47°C = 320°K vity with Water: No reaction 9.5 Critical Temperature: Not pertinent vity with Common Materials: ions are corrosive to most metals. 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.7 at 20°C (solid) act of solid with wood or paper may 9.8 Liquid Surface Tension: Not pertinent ty During Transport: Stable 9.9 Liquid Water Interfacial Tension: Not lizing Agents for Acids and tics: Not pertinent . pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent erization: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): or of Polymerization: Not pertinent Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent WATER POLLUTION 9.13 Heat of Combustion: Not pertinent 9.14 Heat of Decomposition: Not pertinent ic Toxicity: ntly not available 9.15 Heat of Solution: 40 Btu/lb = 22 cal/g = 0.92 owl Toxicity: Currently not X 10⁵ J/ka 9.16 Heat of Polymerization: Not pertinent ical Oxygen Demand (BOD): None 9.17 Heat of Fusion: Currently not available Chain Concentration Potential: 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available MP Hazard Profile: Not listed

NOTES

FERRIC NITRATE

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T		N O T		N O T		N O T
	P E R T I N E N T		P E R T N E N T		P E R T I N E N T		P E R T I N E N T

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	67.950 68.809 69.660 70.520 71.379 72.230 73.089 73.940 74.799 75.650 76.509 77.360 77.360 77.360 77.360 77.360 77.360 78.219 79.929 80.790 81.639 82.500 83.349 84.209 85.059 85.059 85.059 85.059 85.059 85.059 85.919 86.780 87.629 88.490 89.339		N O T E R T I N E N T		N O T E R T I N E N T		N O T P E R T I N E N T