## **NICKEL SULFATE**

Common Synonyms         Solid crystals         Pale green         Odorless           Nickelous sulfate         Sinks and mixes slowly with water.         Odorless				4. FIRE HAZARDS     4.1 Flash Point:     Not flammable     4.2 Flammable Limits in Air: Not flammable	7. SHIPPING INFORMATION 7.1 Grades of Purity: Technical; reagen 7.2 Storage Temperature: Ambient			
			4.2 Firammable Limits in Air: Not nammable 4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement 7.4 Venting: Open				
Avoid inha	lation.			- 1	4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.5 IMO Pollution Category: Currently n		
Notify loca	act with solid a I health and po ater intakes.	and dust. Illution control agenci	es.		<ul> <li>4.5 Special Hazards of Combustion Products: Not pertinent</li> <li>4.6 Behavior in Fire: Not pertinent</li> </ul>	7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not avail		
Fire	Fire Not flammable.				<ul> <li>4.7 Auto Ignition Temperature: Not flammable</li> <li>4.8 Electrical Hazards: Not pertinent</li> </ul>	8. HAZARD CLASSIFICATION 8.1 49 CFR Category: Not listed. 8.2 49 CFR Class: Not pertinent.		
Exposure	CALL FOR MEDICAL AID. SOLID Initating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.				4.9 Burning Rate: Not flammable 4.10 Adiabatic Flame Temperature: Currently	8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not list 8.6 EPA Reportable Quantity: 100 pound		
•					not available 4.11 Stoichometric Air to Fuel Ratio: Not			
					pertinent.			
					4.12 Flame Temperature: Currently not available	8.7 EPA Pollution Category: B 8.8 RCRA Waste Number: Not listed		
Water Dangerous to aquatic life in high concentrations. May be dangerous if it enters water intakes.			concentrations.		4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.	8.9 EPA FWPCA List: Yes		
Pollution	Notify local	health and wildlife of	ficials.		4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	9. PHYSICAL & CHEMICAL PROPE		
Notify operators of nearby water intakes.			┛┠	5. CHEMICAL REACTIVITY	9.1 Physical State at 15° C and 1 atm:			
				_	5.1 Reactivity with Water: No reaction	9.2 Molecular Weight: 154.78 9.3 Boiling Point at 1 atm: Decomposes		
1. CORRECTIVE Dilute and		E ACTIONS	2. CHEMICAL DESIGNATIONS		5.2 Reactivity with Common Materials: No reaction	9.4 Freezing Point: Not pertinent		
Stop disch		dqe	<ul> <li>2.1 CG Compatibility Group: Not listed.</li> <li>2.2 Formula: NiSO4</li> <li>2.3 IMO/UN Designation: Not listed</li> </ul>		5.3 Stability During Transport: Stable	9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent		
			2.3 IMO/ON Designation: Not listed 2.4 DOT ID No.: 9141 2.5 CAS Registry No.: 7786-81-4		5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	9.7 Specific Gravity: 3.68 at 20°C (solid		
			2.6 NAERG Guide No.: 1760-01-4 2.6 NAERG Guide No.: 154 2.7 Standard Industrial Trade Classification:		<ul><li>5.5 Polymerization: Not pertinent</li><li>5.6 Inhibitor of Polymerization: Not pertinent</li></ul>	9.8 Liquid Surface Tension: Not pertine 9.9 Liquid Water Interfacial Tension: N		
			52349	┛┝		pertinent 9.10 Vapor (Gas) Specific Gravity: Not		
2.4. Deserved Dest	aatiina Eaniina	3. HEALTH H			6. WATER POLLUTION 6.1 Aquatic Toxicity:	9.11 Ratio of Specific Heats of Vapor ( Not pertinent		
3.2 Symptoms Fol	llowing Expos				160 ppm/48 hr/rainbow trout/TL <sub>M</sub> /fresh water	9.12 Latent Heat of Vaporization: Not p		
		ash all affected parts d change: 1.5 mg Ni/i			13.9 ppm/48 hr/prawn/LC50/salt water	9.13 Heat of Combustion: Not pertinent		
3.5 TLV-STEL: Not	t listed.				6.2 Waterfowl Toxicity: Currently not available	9.14 Heat of Decomposition: Not pertin 9.15 Heat of Solution: Not pertinent		
3.6 TLV-Ceiling: N 3.7 Toxicity by Ing	gestion: Curre				6.3 Biological Oxygen Demand (BOD): None 6.4 Food Chain Concentration Potential:	9.16 Heat of Polymerization: Not pertine		
3.8 Toxicity by Inh 3.9 Chronic Toxic					None	9.17 Heat of Fusion: Currently not availa 9.18 Limiting Value: Currently not availa		
3.10 Vapor (Gas) In 3.11 Liquid or Soli			act can cause dermatitis.		6.5 GESAMP Hazard Profile: Not listed	9.19 Reid Vapor Pressure: Currently no available		
3.12 Odor Thresho	old: Odorless	ales. Repeated conta			NOT			
3.13 IDLH Value: 1 3.14 OSHA PEL-TV	NA: 1 mg/m³ a				NOT	ES		
3.15 OSHA PEL-ST 3.16 OSHA PEL-Ce	iling: Not liste							
3.17 EPA AEGL: N	lot listed							

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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
	- PERT INENT		- PERTINERN TINENT		- P R T I N E N T		- PERTINER TINENT

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 72 74 76 78 80 82 84	28,190 28,790 29,390 29,990 30,590 31,190 31,790 32,390 32,390 34,190 34,190 35,390 35,590 37,190 37,790 38,390 38,590 38,590 39,550 40,190 41,390 41,390 41,390 41,390 43,190		N O T R T I N E N T		N O T R T I N E N T		N O T P E R T I N E N T