Fisher Science Education
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24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300

HAZARD RATING

4-EXTREME
3-SEVERE
2-MODERATE
1-SLIGHT
0-MINIMAL

Health Hazard	3
Flammability	0
Reactivity	3

IMPORTANT
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. S80105-1

Product Name NICKEL NITRATE, HEXAHYDRATE

SECTION I NAME

Chemical Synonyms	Nickel Nitrate
Formula	$Ni(NO_3)_2 \cdot 6H_2O$
C.A.S. No.	13478-00-7

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
Nickel Nitrate*	100	1.0 mg/m³ (as Nickel)	0.1 mg/m³ (as Nickel)

★ chemical subject to the reporting requirements of SARA Title III.

SECTION III PHYSICAL DATA

Melting Point (°F)	56.7°C	Specific Gravity (H_2O=1)	2.05
Boiling Point (°F)	137°C (-6H_2O)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (------ =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	60 g/100 g @ 20°C		
Appearance & Odor	Green crystals or flakes; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
			N/A	N/A
Extinguisher Media	Dry chemical, carbon dioxide, water spray.			

Special Firefighting Procedures

Wear self-contained breathing apparatus especially in enclosed area or when large quantities are involved in a fire situation.

Unusual Fire and Explosion Hazards

In contact with easily oxidizable substances it may react to cause ignition.

D.O.T. Nickel nitrate, 5.1, UN2725, PGIII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limit Value

ACGIH TWA: 0.1 mg/m³ as Nickel

Effects of Overexposure

Eye contact may cause irritation. Skin contact may cause allergic dermatitis (nickel itch or rash). Inhalation of concentrations above limits may cause upper respiratory tract irritation. NIOSH has concluded that Nickel and certain Nickel compounds are suspect carcinogens. Ingestion has a low acute toxicity. May cause gastrointestinal disorders.

Emergency and First Aid Procedures

Consult physician. **EYE:** Flush with water for at least 15 minutes. **SKIN:** Remove contaminated clothing and wash skin with soap and water. **INHALATION:** Remove to fresh air. May give oxygen if necessary. **INGESTION:** Induce vomiting if conscious.

SECTION VI REACTIVITY DATA

Stability		Conditions to Avoid
Stable ☒	Unstable ☐	N/A
Incompatibility (Materials to Avoid)		Avoid contact with easily oxidizable substances.
Hazardous Decomposition Products		Toxic fumes of oxides of Nitrogen and metal oxides may be present during decomposition.
Hazardous Polymerization		**Conditions to Avoid**
May Occur ☐	Will Not Occur ☒	N/A

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Contain the spill. Pick up the spill in an approved container for disposal.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose in accordance with federal, state and local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Use NIOSH approved dust mask.			
Ventilation	Local Exhaust	X	Special	-------
	Mechanical (General)	-------	Other	-------
Protective Gloves	Rubber Gloves	Eye Protection	Safety Goggles	
Other Protective Equipment	Lab coat or apron. Safety shower and eye wash.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Protect against physical damage. Avoid contact with skin, eyes, clothing. Avoid breathing.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Use only with adequate ventilation. Wash thoroughly after handling.

Approved by Steven C. Quandt | **Effective Date** 6/22/2002 | For laboratory use only. Not for drug, food or household use. Keep out of reach of children.