Nickel (II) Nitrate, 6-Hydrate

CAROLINA® www.carolina.com

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Nickel (II) Nitrate, 6-Hydrate Science education applications Nickel (II)nitrate, hexahydrate (126); nickelous Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



May intensify fire; oxidizer. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Respiratory Sensitisation Category 1, Skin Sensitisation Category 1, Carcinogenicity Category 1A, Reproductive Toxicity Category 1B, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1, Skin Corrosion/Irritation Category 2, Oxidizing Solid Category 3, Acute Toxicity - Inhalation Dust / Mist Category 4, Acute Toxicity - Oral Category 4

Other Safety Precautions:	IF exposed or concerned: Get medical advice/attention.
Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name Nickel (II) Nitrate, 6-Hydrate

<u>CAS #</u> 13478-00-7

<u>%</u> 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If a position comfortable for the position comfortable f
breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.					
Section 5		Firefighting Procedures				
Extinguishing Media:		Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.				
Fire Fighting Met	hods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explo Hazardous Comb		Fire or excessive heat may produce hazardous decomposition products. Metal Oxides,				
Section 6		Spill or Leak Procedures				
Steps to Take in 0 Released or Spill	ed: e n c a s ន ន រ ន ក ក ក ក ក	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment eeds must be evaluated based on information provided on this sheet and the special ircumstances created by the spill including; the material spilled, the quantity of the spill, the trea in which the spill occurred, and the expertise of employees in the area responding to the pill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Solate area. Keep unnecessary personnel away. Avoid prolonged or repeated contact with naterial. Avoid breathing material. Toxic or severely irritating material. Avoid contacting and void breathing the material. Use only in a well ventilated area. Reduce airborne dust and prevent scattering by moistening with water Vacuum or sweep up naterial and place in a disposal container Avoid runoff into storm sewers and ditches that ead to waterways. Contain the discharged material. Collect spillage.				
Section 7		Handling and Storage				
Handling: Storage:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from clothing//combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Avoid contact with skin and eyes. Keep away from (incompatible materials to be indicated by the manufacturer). Store locked up. Keep in a cool, well-ventilated place away from (incompatible materials to be indicated by the					
Storage Code:	manufacturer). Code: Blue - Toxic. Store separately in a secured area.					

Section 8	Protection Info	ormation			
	ACGIH		<u>OSHA P</u>	<u>PEL</u>	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Nickel (II) Nitrate, 6-Hydrate	0.1 mg/m3 TWA (inhalable fraction, as Ni)	N/A	1 mg/m3 TWA (as Ni)	N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.				
Deenivetev True (e)	NICCI I appressed air purifising reapirater with dust/mist filter				

Respirator Type(s): Eye Protection: NIOSH approved air purifying respirator with dust/mist filter. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Nitrile

Gloves:

Section 9

Formula: Ni(NO3)2 • 6H2O Molecular Weight: 290.82 g/mol Appearance: Green Crystalline Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: 57 C Boiling Point: 136 C Flash Point: No data available Flammable Limits in Air: N/A

Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.05 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Acids, Metals (powdered), Strong reducing agents, Organic Compounds Metal Oxides, Will not occur

Section 11

Section 10

Toxicity Data

Routes of EntryInhalation and ingestion.Symptoms (Acute):Respiratory disorders, , Eye disordersDelayed Effects:No data available

Acute Toxicity: Chemical Name Nickel (II) Nitrate, 6-H	ydrate	CAS Number 13478-00-7	Oral LD50 Oral LD50 Rat 1620 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA
Nickel (II) Nitrate, 6-H	ydrate	13478-00-7	Listed	Listed	Listed
Chronic Effects: Mutagenicity:	No evidence	of a mutagenic effect.			

 Mutagenicity:
 No evidence of a mutagenic effect.

 Teratogenicity:
 Evidence of a teratogenic effect (birth defect).

 Sensitization:
 Evidence of a sensitization effect.

 Reproductive:
 Evidence of negative reproductive effects.

 Target Organ Effects:
 See Section 2

 Acute:
 N/A

Section 12

Ecological Data

Overview:

Mobility: Persistence: Bioaccumulation: Severe ecological hazard. This product may be toxic to plants and/or wildlife. Keep out of waterways. No data No data No data

Degradability:	No data
Other Adverse Effects:	No data

Chemical Name N/A CAS Number 13478-00-7

Eco Toxicity

Section 13

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Transport Information

Additional Information

Ground - DOT Proper Shipping Name:

UN2725, Nickel Nitrate, 5.1, III

Air - IATA Proper Shipping Name:

UN number: 2725 Class: 5.1 Packing group: III Proper shipping name: Nickel nitrate

Section 15	Regulatory Information					
TSCA Status:	A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	13478-00-7	No	No	No	No	No
California Prop 65:	WARNING: This product contains a chemical known to the state of California to cause cancer.					

Section 16

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health