# spectrum®



# SAFETY DATA SHEET

Preparation Date: 4/5/2017	Revision date 5/7/2019	Revision Number: G2
	1. IDENTIFICATION	
Product identifier		
Product code: Product Name:	N1070 NICKEL SULFATE, HEXAHYDRATE, CRYSTA	AL, REAGENT, ACS
Other means of identification Synonyms: CAS #: RTECS # CI#:	Nickel monosulfate hexahydrate Nickel sulfate hexahydrate Nickel sulphate hexahydrate Nickel (2+) sulfate hexahydrate Nickel (II) sulfate hexahydrate Nickelous sulfate hexahydrate Sulfuric acid, nickel (2+) salt, hexahydrate 10101-97-0 QR9600000 Not available	
Recommended use of the chem Recommended use: Uses advised against	nical and restrictions on use Mordant in textile and leather industries. Produ No information available	ction of steel. Electroplating agent.
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)	

# 2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2

Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements

#### Danger

Hazard statements Toxic if swallowed Harmful if inhaled Causes skin irritation Causes eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction Suspected of causing genetic defects May cause cancer May damage fertility or the unborn child May cause damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC) Not Applicable

# Other hazards

Not available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or physician IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN: Wash with plenty of water Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical attention IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a

Product code: N1070

#### POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS No	Weight-%	
Nickel Sulfate, Hexahydrate		10101-97-0	100	
		4. FIRST AID MEASURES		
First aid measures				
I	nave a 1-800	nal Capital Poison Center in the United a poison emergency and need to talk t -222-1222. Ensure that medical perso ed and take precautions to protect the	to a poison specialist. Call nnel are aware of the material(s)	
	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention immediately. Call a physician immediately.			
	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.			
		to fresh air. If not breathing, give artificial re n. Obtain medical attention. Call a physicia		
		induce vomiting without medical advice. Nacious person. Immediate medical attentio	lever give anything by mouth to an n is required. Call a physician immediately.	
Most important symptoms and effect	s, bot	h acute and delayed		
(	Cause Cause	ause allergy or asthma symptoms or breatl s skin irritation s eye irritation ause an allergic skin reaction	hing difficulties if inhaled	
Indication of any immediate medical	attent	ion and special treatment needed		

Notes to Physician:

Treat symptomatically.

# Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# **5. FIRE-FIGHTING MEASURES**

# Extinguishing Media Suitable Extinguishing Media:

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous combustion products	If it is involved in a fire the following can be released:. Sulfur oxides. Nickel oxides.
Specific hazards	No information available.
Special Protective Actions for Firefighters	
Specific Methods:	No information available
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing dust.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.	
Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.	

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### Incompatible Materials:

Oxidizing agents Acids Aniline Hydrogen Sulfide Hydrazine Zinc Aluminum Magnesium

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

### National occupational exposure limits

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Nickel Sulfate,	10101-97-0	1 mg/m <sup>3</sup> TWA (as Ni)	0.015 mg/m <sup>3</sup> TWA (as	0.1 mg/m³ TWA (as Ni)	None
Hexahydrate			Ni except nickel		
			carbonyl)		

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Nickel Sulfate, Hexahydrate	10101-97-0	0.1 mg/m³ TWA (as Ni)	0.05 mg/m³ TWA (as Ni)	0.1 mg/m³ TWA (as Ni)	0.1 mg/m³ TWAEV (as Ni)

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Nickel Sulfate, Hexahydrate	10101-97-0	0.1 mg/m³ TWA (as Ni)	0.1 mg/m <sup>3</sup> TWA (as Ni)

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

# Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Effective dust mask. or. Wear respirator with dust filter.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: N1070

Physical state: Solid

Odor: Odorless.

Molecular/Formula weight (g/mole): Flammability (solid, gas) 262.85 g/mol

Flash Point Tested according to: Not available

**Upper Explosion Limit (%):** No information available

Boiling point/range(°C/°F): 103°C/217.4°F

Specific gravity: 2.07

Evaporation rate: No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available

#### Appearance: Crystalline solid.

Taste No information available.

no data available

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): 53°C/ 127.4°F

**Bulk density:** No information available

pН No information available

Vapor density: 9.1

Partition coefficient (n-octanol/water): 5

Solubility: Soluble in cold water Soluble in hot water Solubility of water: 650 g/l @20°C, 3,407 g/l @ 100°C

Color: Blue. Blue green.

Formula NiSO4-6H2O

Flashpoint (°C/°F): No information available

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): No information available

Density (q/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

#### Reactivity

Reactive with oxidizing agents Reacts with acid, aniline, hydrogen sulfide, hydrazine zinc, aluminum, magnesium.

#### **Chemical stability**

Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials.

Incompatible Materials:

Oxidizing agents Acids Aniline Hydrogen Sulfide Hydrazine Zinc Aluminum Magnesium

Nickel oxides. Sulfur oxides.

#### Hazardous decomposition

Product code: N1070

products:

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

**Principal Routes of Exposure:** Inhalation. Ingestion.

# Acute Toxicity

#### **Component Information**

Nickel Sulfate, Hexahydrate
CAS No 10101-97-0
LD50/oral/rat = 264 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available
Product Information
LD50/oral/rat =
Value - Acute Tox = 264 mg/kg
LD50/oral/mouse =
Value - Acute Tox Oral = No information available
LD50/dermal/rabbit
Value - Acute Tox = No information available
LD50/dermal/rat
VALUE - Acute Tox Dermal = No information available
LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available VALUE-Dust/Mist = No information available
LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Product code: N1070

Skin Contact:	May cause skin irritation. May cause sensitization by skin contact.
Eye Contact:	May cause slight or mild eye irritation.
Inhalation	Harmful by inhalation. May cause irritation of respiratory tract.
Ingestion	Toxic if swallowed. May affect behavior/central nervous system (somnolence).
Aspiration hazard	No information available.
Delayed and immediate effects	as well as chronic effects from short and long-term exposure
Chronic Toxicity	Repeated or prolonged skin contact may cause skin sensitization. Prolonged or repeated inhalation may cause rhinitis, bronchitis, sinusitis, allergies, respiratory sensitization. Ingestion: Prolonged or repeated ingestion may cause cancer. It may also affect the blood, kidney, liver, pancreas (hypoglycemia), and cause anorexia/weight loss.
Sensitization:	May cause sensitization by inhalation and skin contact.
Mutagenic Effects:	Suspected of causing genetic defects Mutagenic effects in mammalian somatic cells DNA Damage - human lymphocyte Cytogenic Analysis (Hamster embryo)

# Carcinogenic effects:

May cause cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Nickel Sulfate, Hexahydrate		Carcinogenic to humans - Monograph 49 [1990] Nickel and nickel	Classifiable as a human carcinogen (for Nickel soluble	Nickel compounds	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	May damage fertility or the unborn child		
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available May cause birth defects (teratogenic effects) May cause harm to the unborn child		

# Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

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Product code: N1070
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# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Ecotoxicity effects:	Aquatic environment.
Nickel Sulfate, Hexahydrate - 101 Crustacea	<i>01-97-0</i> LC50 Daphnia magna 0.13 mg/l 3 weeks
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Nickel Sulfate, Hexahydrate	10101-97-0	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT						
UN-No:	UN3288					
Proper Shipping Name:	Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate)					
Hazard Class	6.1					
Subsidiary Class	No information available					
Packing group:						
Emergency Response Guide	151					
Number						
Marine Pollutant	Severe Marine Pollutant					
DOT RQ (lbs):	No information available					
Special Provisions	IB8, IP3, T1, TP33					
Symbol(s):	[DOT]: (G) - Identifies proper shipping names for which one or more	technica	al			
	names of the hazardous material must be entered in parentheses, in	associa	ation			
	with the basic description.					
Description:	UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate),	6.1, III				
TDG (Canada)						
UN-No:	UN3288					
Proper Shipping Name:	Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate)					
Hazard Class	6.1					
Subsidiary Risk:	No information available					
Product code: N1070	Product names NICKEL SUILEATE	Daga	0/15			
Floudel code. N1070	Product name: NICKEL SULFATE, HEXAHYDRATE, CRYSTAL,	Page	9/15			
	REAGENT, ACS					
	REAGENT, AGO					

Packing Group:	III
Marine Pollutant	No Information available
Description:	UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate), 6.1, III
ADR	UN3288
UN Number	Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate)
Proper Shipping Name:	6.1
Transport hazard class(es)	III
Packing group	No information available
Subsidiary Risk:	274
Special Provisions	UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate), 6.1, III,
Description:	ENVIRONMENTALLY HAZARDOUS
IMDG	UN3288
UN-No:	Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate)
Proper Shipping Name:	6.1
Hazard Class:	No information available
Subsidiary Risk:	III
Packing Group:	No information available
Marine Pollutant	F-A
EMS:	223, 274
Special Provisions	UN3288, Toxic solid, inorganic, n.o.s. (NICKEL SULFATE, HEXAHYDRATE), 6.1,
Description	III, Marine pollutant
RID	UN3288
UN Number	Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate)
Proper Shipping Name:	6.1
Transport hazard class(es)	No information available
Subsidiary Risk:	III
Packing group	274
Special Provisions	UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate), 6.1, III,
Description:	ENVIRONMENTALLY HAZARDOUS
ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Description: Special Provisions	UN3288 Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate) 6.1 No information available III UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate), 6.1, III A3, A5
IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response Special Provisions Description:	UN3288 Toxic solid, inorganic, n.o.s. (nickel sulfate, hexahydrate) 6.1 No information available III 6L No information available UN3288, Toxic solid, inorganic, n.o.s. (Nickel Sulfate, Hexahydrate), 6.1, III
	15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Nickel Sulfate, Hexahydrate	10101-97-0	Not listed. It is exempt from listing on the TSCA 8(b) Inventory since it is a	Not present	Present	Present (1)-813	Present	Not listed	Not present
		hydrate. However, the anhydrous form (CAS no. 7786-81-4) is listed as ACTIVE on the TSCA 8(b)						

#### **U.S. Regulations**

Nickel Sulfate, Hexahydrate

New Jersey RTK Hazardous Substance List: 4058

New Jersey (EHS) List: Present (as nickel compounds) (sn 2366 500 lb. TPQ)

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (nickel compounds)

Minnesota - Hazardous Substance List: Present (carcinogen as Ni)

California Directors List of Hazardous Substances: Present (as nickel compounds)

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

AWARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Reproductive	Female Reproductive Toxicity:
Nickel Sulfate, Hexahydrate		carcinogen (nickel compounds)	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Nickel Sulfate, Hexahydrate	10101-97-0	None	None	None	None	None

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Nickel Sulfate, Hexahydrate	10101-97-0	Not Applicable	Not Applicable

# Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Nickel Sulfate, Hexahydrate 10101-97-0 (100) WHMIS 2015 Hazard Classification Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Respiratory sensitizers - Category 1: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.; Skin sensitizers - Category 1: H317 May cause allergic skin reaction.; Carcinogenicity - Category 1A: H350 May cause cancer.; Reproductive Toxicity - Category 1B: H360 May damage fertility or the unborn child.; Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.

Not listed

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Nickel Sulfate, Hexahydrate	10101-97-0	Not Listed	Not Listed
Component		CAS No	CEPA Schedule I - Toxic Substances
Nickel Sulfate, Hexahydrate		10101-97-0	Not listed
Component		CAS No	CEPA - 2010 Greenhouse Gases Subject
			to Mandatory Reporting

10101-97-0

# EU Classification

#### EU GHS - SV - CLP 1272/2008

Nickel Sulfate, Hexahydrate

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Nickel Sulfate, Hexahydrate	10101-97-0	Acute toxicity - Oral - Acute Tox. 4:
		H302 Harmful if swallowed. (Minimum
		classification); Acute toxicity -
		Inhalation - Acute Tox. 4: H332
		Harmful if inhaled. (Minimum
		classification); Skin corrosion/irritation
		<ul> <li>Skin Irrit. 2: H315 Causes skin</li> </ul>
		irritation. (C >= 20 %); Respiratory
		sensitizers - Resp. Sens. 1: H334 May
		cause allergic or asthmatic symptoms
		or breathing difficulties if inhaled.; Skin
		sensitizers - Skin Sens. 1: H317 May
		cause allergic skin reaction. (C >=
		0.01 %); Germ cell mutagenicity -
		Muta. 2: H341 Suspected of causing
		genetic defects.; Carcinogenicity -
		Inhalation - Carc. 1A: H350 May cause
		cancer by inhalation.; Reproductive
		Toxicity - Repr. 1B: H360D May

damage the unborn child. (Hazard
statements H360 and H361 indicate a
general concern for effects on both
fertility and development: May
damage/Suspected of damaging
fertility or the unborn child; According
to the criteria, the general hazard
statement can be replaced by the
hazard statement indicating the
specific effect of concern in
accordance with section 1.1.2.1.2;
When the other differentiation is not
mentioned, this is due to evidence
proving no such effect, inconclusive
data or no data and the obligations in
Article 4(3) shall apply for that
differentiation); Specific target organ
toxicity - Repeated exposure - STOT
RE 1: H372 Causes damage to organ
through prolonged or repeated
exposure. ( $C \ge 1$ %; No information
to prove exclusion of certain routes of
exposure); Hazardous to aquatic
environment - acute hazard - Aquatic
Acute 1: H400 Very toxic to aquatic
life. (M Factor: 1); Hazardous to
aquatic environment - chronic hazard
Aguatic Chronic 1: H410 Very toxic to
aquatic life with long lasting effects. (N
Factor: 1)028-009-00-5
Skin corrosion/irritation - Skin Irrit. 2:
H315 Causes skin irritation. (C >= 20
%); Skin sensitizers - Skin Sens. 1:
H317 May cause allergic skin reaction
(C >= 0.01 %); Specific target organ
toxicity - Repeated exposure - STOT
RE 1: H372 Causes damage to organ
through prolonged or repeated
exposure. ( $C \ge 1$ %; No information
to prove exclusion of certain routes of
exposure); Specific target organ
toxicity - Repeated exposure - STOT
RE 2: H373 May cause damage to
organs through prolonged or repeated
exposure. (0.1 % <= C <1
%)028-009-00-5
/0/020 000 00-0

#### EU - CLP (1272/2008)

#### R-phrase(s)

- R38 Irritating to skin
- R49 May cause cancer by inhalation
- R50 Very toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R61 May cause harm to the unborn child
- R68 Possible risk of irreversible effects
- R20/22 Harmful by inhalation and if swallowed
- R42/43 May cause sensitization by inhalation and skin contact
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation

#### S -phrase(s)

S53 - Avoid exposure - obtain special instructions before use

Product code: N1070

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S60 - This material and its container must be disposed of as hazardous waste

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Nickel Sulfate, Hexahydrate	10101-97-0		1%<=C T; R48/23 0.1%<=C<1% Xn; R48/20 20%<=C Xi; R38 0.01%<=C R43 25%<=C N; R50-53 2.5%<=C<25% N; R51-53 0.25%<=C<2.5% R52-53	S:53-45-60-61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

- T Toxic
- Xn Harmful
- Xi Irritant
- N Dangerous for the environment



# **16. OTHER INFORMATION**

Preparation Date: Revision date Prepared by: 4/5/2017 5/7/2019 Sonia Owen

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet