

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Nickel Sulfide		
Other means of identification			
SDS number	1XX		
Materion Code	1XX		
CAS number	16812-54-7		
Manufacturer/Importer/Supplier/D Manufacturer	istributor information		
Company name Address	Materion Electronic Materials 6070 Parkland Blvd		
	Mayfield Heights, Ohio 44124 United States		
Telephone	1.216.383.4019		
E-mail	Materion-PS@materion.com		
Contact person Emergency phone number	Product Stewardship Director See Section 16		
Emergency phone number			
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, inhalation	Category 3	
	Sensitization, skin	Category 1	
	Germ cell mutagenicity	Category 2	
	Carcinogenicity (inhalation)	Category 1A	
	Specific target organ toxicity, repeated exposure	Category 1	
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Olen el une el			
Signal word	Danger		
Hazard statement	May cause an allergic skin reaction. Toxic if in cause cancer by inhalation. Causes damage		

spected of causing genetic defects. May hrough prolonged or repeated exposure. Precautionary statement Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Response If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	For further information, please contact the Product Stewardship Department at +1.800.862.4118.

## 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Nickel Sulfide		16812-54-7	100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.	
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release measures		

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material	Туре	Value	
Nickel Sulfide (CAS 16812-54-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Valu	ies (TLV)		
Material	Туре	Value	Form
Nickel Sulfide (CAS 16812-54-7)	TWA	0.2 mg/m3	Inhalable fraction.
NIOSH. Immediately Dangerous	to Life or Health (IDLH) Values, as	amended	
Material	Туре	Value	
Nickel Sulfide (CAS 16812-54-7)	IDLH	10 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards Recommended Ex	oosure Limits (REL)	
Material	Туре	Value	
Nickel Sulfide (CAS 16812-54-7)	TWA	0.015 mg/m3	
US. California Code of Regulation	ons, Title 8, Section 5155. Airborne	Contaminants	
Material	Туре	Value	
Nickel Sulfide (CAS 16812-54-7)	PEL	0.1 mg/m3	

# US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

logical limit values ACGIH Biological Exposure	e Indices (BEI)			
Material	Value	Determinant	Specimen	Sampling Time
Nickel Sulfide (CAS 16812-54-7)	30 µg/l	Nickel	Urine	*
* - For sampling details, ple	ease see the source o	locument.		
propriate engineering contro	applicable, use p maintain airborn	process enclosures, l	ocal exhaust vent mended exposur	ates should be matched to conditions. If tilation, or other engineering controls to e limits. If exposure limits have not been level.
ividual protection measures, Eye/face protection		<b>otective equipment</b> y, safety glasses with	side shields are	recommended.
Skin protection Hand protection	Wear appropriat	e chemical resistant	gloves.	
Other	Wear appropriat	e chemical resistant	clothing. Use of a	n impervious apron is recommended.
Respiratory protection	In case of insuffi	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriat	e thermal protective	clothing, when ne	cessary.
neral hygiene considerations	measures, such smoking. Routir	as washing after har	dling the materia	ys observe good personal hygiene I and before eating, drinking, and/or equipment to remove contaminants. of the workplace.

# 9. Physical and chemical properties

Appearance		
Physical state	Solid.	
Form	Solid.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	<0.0000001 kPa (77 °F (25 °C))	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	

Viscosity	Not available.
Other information Explosive properties	Not explosive.
Molecular formula	NiS
Molecular weight	90.75 g/mol
Oxidizing properties	Not oxidizing.
10. Stability and reactivit	у

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause cancer by inhalation.	
Skin contact	May cause an allergic skin reaction.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects		
Acute toxicity	Toxic if inhaled.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Suspected of causing genetic defects.	
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall Ev	aluation of Carcinogenicity	
Nickel Sulfide (CAS 1681 OSHA Specifically Regulated	2-54-7) 1 Carcinogenic to humans. Substances (29 CFR 1910.1001-1053)	
Not listed.		
	ram (NTP) Report on Carcinogens	
Nickel Sulfide (CAS 1681)		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	

Chronic effects       Product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.         Persistence and degradability       No data is available.         Bioeccumulative potential       No data available.         Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. corone depletion, photochemical azone creation potential, endocrine disruption, global warming potential) are expected from this component.         J. Disposal considerations       Otolet and reclaim or dispose in asceled containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.         Local disposal regulations       Dispose of in accordance with local regulations. Empty containers or liners may retain some product elidiposal containers or liners may retain some product elidiposal containers and legosal company.         Vaste from redues / unage       Dispose of in accordance with local regulations. Empty containers or liners may retain some product elidiposal containers may retain product residue, follow tabel warning: even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or line required in succession         Vor regulated as dangerous goods.       Implied. Empty containers or liners may retain some proved waste handling site for recycling or line required in the social elidiposal container may retain product residue, follow tabel warning even after container is emptied. Empty containers o			
Ecotoxicity       The product is not classified as environmentally hazardous. However, this does not exclude the persistence and degradability         Persistence and degradability       No data available.         Bioaccumulative potential       No data available.         Mobility in soil       No data available.         Other adverse effects       No data available.         Disposal considerations       Collect and reclaim or dispose in seeled containers at licensed waste disposal site. Dispose of content/socianer in accordance with local/gional/national/international regulations.         Local disposal regulations       Dispose in accordance with local regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the producer and the waste disposal organizational/international regulations.         Products       Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Dispose) in socie emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.         Not regulated as dangerous goods.       IMDE Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         Not regulated as dangerous goods.       IMDE Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         IS regulated as dangerous goods.       Importunation Polocontainere ascordance with local regulated Marine Pollu	Chronic effects		
ensistence and degradability         No data is available on the degradability of this product.           Persistence and degradability         No data is available.           Mobility in soil         No data available.           Other adverse effects         No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.           13. Disposal considerations         Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with local/regional/international/international/regulations.           Local disposal regulations         Dispose in accordance with local/regulations.           Hazardous waste code         The waste code should be assigned in discussion between the user, the producer and the waste product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).           Vaste from residues / unused         Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.           At rransport information         Most Regulated as dangerous post.           Intergulated as dangerous post.         Intergulated as dangerous post.           Intergulated as dangerous post.         Tis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard; 20 CFR 1910.100.           Toric Substances Control Act (CFR 707, Subpt. D) Not regulate	12. Ecological information		
Bioaccumulative potential       No data available.         Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.         13. Disposeal considerations       Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/Container in accordance with local/regional/national/international regulations.         Local disposal regulations       Dispose of in accordance with local regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the producer and the waste disposal or in accordance with local regulations. Empty containers on liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Dispose).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.         14. Transport information       MDG Regulated as dangerous goods.         IMDG       MDG Regulated as dangerous goods.         15. Regulatory information       Theorduct is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.         Toxic Substances Control Act (TSCA)       TSCA Section 12(b) Expert.         Toxic Substances Control Act (GCA 1812-54-7)       Liste	Ecotoxicity		
Mobility in solution         No data available.           Other adverse effects         No other adverse environmental effects (e.g., ozone depletion, photohemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.           13. Disposal considerations         Environmental effects (e.g., ozone depletion, photohemical ozone creation potential) are expected from this component.           Disposal instructions         Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.           Local disposal regulations         Dispose in accordance with local regulations.           Hazardous waste code         The waste code abould be assigned in discussion between the user, the producer and the waste disposal company.           Waste from residues / unused product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).           Contaminated packaging         Since empide containers may retain product residue, follow label warning seven after container is empided. Empty containers should be taken to an approved waste handling site for recycling or disposal.           IATA         Not regulated as dangerous goods.           IATA         Inservertingent           Not regulated as dangerous goods.         Importantion           US federal regulations         This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 29 CFR 1910.1200.	Persistence and degradability	No data is available on the degradability of this product.	
Other adverse effects     No ther adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.       13. Disposal considerations     Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.       Local disposal regulations     Dispose in accordance with all applicable regulations.       Hazardous waste code     The waste code should be assigned in discussion between the user, the producer and the waste disposal instructions.       Waste from residues / unused product residues. This material and its container must be disposed of in a safe manner (see: Dispose in instructions).       Contaminated packaging     Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       IMDG     Not regulated as dangerous goods.       Main regulated as dangerous goods.     MDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.       15. Regulatory information     MDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.       15. Regulatory information     MDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.       15. Regulatory information     MDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.       15. Regulatory information     MDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.       15. Regulatory information     <	Bioaccumulative potential	No data available.	
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Not regulated as dangerous substances / MDG         Not regulated as dangerous substances / Sequence / Seque	Not regulated as dangerous g	oods.	
IMDG         Not regulated as dangerous goods.         General information       IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         15. Regulatory information       IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         US federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.         Toxic Substances Control Act (TSCA)       TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) <ul> <li>Not regulated.</li> <li>CERCLA Hazardous Substance List (40 CFR 302.4)</li> <li>Nickel Sulfide (CAS 16812-54-7)</li> <li>Listed.</li> <li>SARA 304 Emergency release notification</li> <li>Not regulated.</li> <li>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</li></ul>	ΙΑΤΑ		
Not regulated as dangerous Joss       IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         General information       IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         J5. Regulatory information       Inis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.         Toxic Substances Control Act (JSCA)       TSCA Section 12(b) Exp + Votification (40 CFR 707, Subpt. D) Not regulated.         CERCLA Hazardous Substances List (40 CFR 302.4)       Nickel Sulfide (CAS 16812-54-7)         Nickel Sulfide (CAS 16812-54-7)       Listed.         SARA 304 Emergency release + ortification         Not regulated.         OSHA Specifically Regulated - Substances (29 CFR 1910.1001-1053)         Not listed.         Superfund Amendments and Reation Act of 1986 (SARA)		oods.	
General information       IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.         15. Regulatory information       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.         Toxic Substances Control Act (TSCA)       TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)         Not regulated.       Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)       Listed.         Nickel Sulfide (CAS 16812-54-7)       Listed.         SARA 304 Emergency release notification       Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)       Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)       Superfund Amendments and Reauthorization Act of 1986 (SARA)			
15. Regulatory information US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Toxic Substances Control Act (TSCA) TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Nickel Sulfide (CAS 16812-54-7) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA)			
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Standard, 29 CFR 1910.1200.         Toxic Substances Control Act (TSCA)         TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)         Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)         Nickel Sulfide (CAS 16812-54-7)         Listed.         SARA 304 Emergency release notification         Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)         Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)			
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)         Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)         Nickel Sulfide (CAS 16812-54-7)         Listed.         SARA 304 Emergency release notification         Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)         Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)	-	Standard, 29 CFR 1910.1200.	
Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)         Nickel Sulfide (CAS 16812-54-7)         Listed.         SARA 304 Emergency release notification         Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)         Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)			
CERCLA Hazardous Substance List (40 CFR 302.4) Nickel Sulfide (CAS 16812-54-7) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA)		ort Notification (40 CFR 707, Subpt. D)	
Nickel Sulfide (CAS 16812-54-7)       Listed.         SARA 304 Emergency release notification       Not regulated.         Not regulated.       OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)         Not listed.       Superfund Amendments and Reauthorization Act of 1986 (SARA)	-		
SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA)			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA)	SARA 304 Emergency release notification		
Superfund Amendments and Reauthorization Act of 1986 (SARA)	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.	SARA 302 Extremely hazardo		
SARA 311/312 Hazardous Yes chemical	SARA 311/312 Hazardous	Yes	

Classified hazard	Acute toxicity (any route of exposure)
categories	Respiratory or skin sensitization
	Germ cell mutagenicity
	Carcinogenicity
	Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Nickel Sulfide	16812-54-7	100	

#### Other federal regulations

Not regulated

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Nickel Sulfide (CAS 16812-54-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.	
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant
Safe Drinking Water Act (SDWA)	Not regulated.

### US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Nickel Sulfide (CAS 16812-54-7)

#### California Proposition 65



**WARNING:** WARNING: This product contains a chemical known to the State of California to cause cancer. This product can expose you to Nickel Sulfide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Nickel Sulfide (CAS 16812-54-7)

Listed: May 7, 2004

### 16. Other information, including date of preparation or last revision

Issue date	01-05-2016
Revision date	06-10-2024
Version #	04
Further information	Transportation Emergency Call Chemtrec at: US: 800.424.9300 International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402 Chemtrec's toll free, mobile-enabled number in Germany – 0800 1817059 South Korea Toll-free Number – 080-880-0468
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.