Safety Data Sheet Nickel (IV) sulfide

1. Product and Company Identification

Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #: Nickel (IV) sulfide NiS₂ Scientific research and development

ALB Materials Inc 2360 Corporate Circle. Suite 400 Henderson Nevada 89074-7739 USA +1-702-983-3769

24-Hour Emergency Contact:

800-424-9300 (US & Canada) +1-703-527-3887 (International)

	2. Hazards Identification
Signal Word:	Danger
Hazard Statamants	H302+H312+H332: Harmful if swallowed, in contact with skin or if
Hazard Statements:	inhaled
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	H341: Suspected of causing genetic defects
	H350: May cause cancer. H372: Causes damage to organs through prolonged or repeated
	exposure
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash skin thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P280: Wear protective gloves/ eye protection/ face protection.
	P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if
	you feel unwell.
	P302+P352: IF ON SKIN: Wash with plenty of soap and water.
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res
	in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
	P308+P313: IF exposed or concerned: Get medical advice/ attention.
	P330 Rinse mouth.
	P332+P313: If skin irritation occurs: Get medical advice/ attention.
	P337+P313: If eye irritation persists: Get medical advice/ attention.
	P362 Take off contaminated clothing and wash before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly
	closed.
	P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal
	plant.
HMIS Health Ratings (0-4):	
Health:	2
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Nonmetal
Additional Names:	Nickel disulfide
Nickel (IV) sulfide (NiS ₂):	
Percentage:	100 wt%
	100 wt% 12035-51-7 683-050-1

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Matarial La Dalaasad/Srillad.	Ween emperation requirement and motortive equipment encodified in
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed
Environmental Precautions:	container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
West-Alexienie Maintenance	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	0.1 mg/m ³ as Ni, long-term value
Threshold Limit Value:	N/A
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9.1	Physical and Chemical Characteristics
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A N/A
Density: Molecular weight:	122.82 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, sulfur oxides, nickel oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	Harmful in contact with skin. Causes skin irritation.
Ingestion:	Harmful if swallowed
Inhalation:	Harmful if inhaled. May cause respiratory irritation
Chronic:	Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: inhalation.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	Possible human carcinogen
-	IARC: 1 - Group 1: Carcinogenic to humans (Nickel sulfide)
	NTP: Known to be human carcinogen (Nickel sulfide)
	OSHA: No component of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Do not allow product to reach ground water, water course or sewage
	system, even in small quantities.
	Danger to drinking water if even extremely small quantities leak into
	the ground.
	Also poisonous for fish and plankton in water bodies.
	May cause long lasting harmful effect to aquatic life.
	Avoid transfer into the environment. Very toxic for aquatic organisms.
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
Hazard Class:	9 Miscellaneous dangerous substances and articles	
Packing Group:	III	
UN Number:	UN3077	
Proper Shipping Name:	Environmentally hazardous substances, solid, n.o.s. (Nickel (IV) sulfide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	
	16. Other Information	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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