

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Phosphide

	1. Product and Company Identification
Trade Name:	Nickel phosphide
Chemical Formula:	Ni ₂ P
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada) +1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H317 May cause an allergic skin reaction H350 May cause cancer by inhalation/swallowed/in contact with skin H372 Causes damage to organ through prolonged or repeated exposu- H410 Very toxin to equation life with leating offects
Precautionary Statements:	H410 Very toxic to aquatic life with lasting effects P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions have been read and understood.
	P261 Avoid breathing 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. P272 Contaminated work clothing should not be allowed out of the workplace.
	P273 Avoid release to the environment
	P280 Wear protective gloves/ protective clothing/ eye protection/ face
	protection. P301+P312+P302+P304 If swallowed/inhaled/on skin seek medical
	attention P301 + P312 + P330 IF SWALLOWED: Call a POISON
	CENTER/doctor if you feel unwell. Rinse mouth.
	P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
	P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if y feel unwell.
	P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/
	attention. P363 Wash contaminated clothing before reuse.

	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:	0
	3. Composition
Chemical Family:	Salt
Additional Names:	N/A
Nickel phosphide (Ni ₂ P):	
Percentage:	100 wt.%
CAS #:	12035-64-2
EC #:	234-828-0
	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. Seek medical attention.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical attention if symptoms persist.
	5. Fire and Explosion Hazards Data
	Non-flammable
Flash Point:	N/A
Autoignition Temperature:	N/A
Extinguishing Media:	Do not use water – use CO ₂ , sand, extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise duct
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
Environmental riecautions:	isolate fution to prevent environmental ponution.

	7. Handling and Storage
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry and well-ventilated place in a tightly sealed container. Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing
Work/Hygienic Maintenance:	chronic effects Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	0.1 mg/m3 N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator, NIOSH approved
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	Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless Voratories, Inc.
Water Solubility: Boiling Point:	Insoluble N/A
Melting Point:	N/A N/A
Density:	N/A
Molecular weight:	148.36 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts with:	N/A
Incompatible Conditions:	Oxidizing agent, Acids, Halogens, Strong bases
Hazardous Decomposition Products:	Oxides of Phosphorus, Nickel/Nickel Oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes: Skin:	May cause irritation Harmful if absorbed through skin. May cause allergic reaction
Ingestion:	Harmful if absorbed through skin. May cause allergic reaction. Harmful if swallowed
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: Group 1: Carcinogenic to humans (Nickel phosphide) NTP: Known - Known to be human carcinogen (Nickel phosphide)

	OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	12. Ecological Information
Notes:	Very toxic to aquatic organisms. May harm environment with long- lasting effects. Do not allow runoff to reach drinking water even in small amounts.
	13. Disposal Considerations
Dispose of in accordance with local,	state, national, and international regulations.
	14. Transportation Data
Hazard Class:	9 Miscellaneous hazardous substances
Packing Group:	III
UN Number:	UN3077
Proper Shipping Name: Additional markings:	Environmentally hazardous substance, solid, n.o.s. (Nickel phosphide) Environmental hazard
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes

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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