

## LTS Research Laboratories, Inc. Safety Data Sheet Nickel Phosphide

	1. Product and Company Identification
Trade Name:	Nickel phosphide
Chemical Formula:	Ni-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
	H372 Causes damage to organ through prolonged or repeated exposure H410 Very toxic to aquatic life with lasting effects
Precautionary Statements:	P201 Obtain special instructions before use
	P273 Avoid release to the environment
	P280 Wear protective gloves P308+P313If exposed: Seek medical attention
	r 508+r 51511 exposed. Seek medical attention
HMIS Health Ratings (0-4):	
Health:	2
Flammability: Physical:	0 0
	3. Composition
Chemical Family:	Salt
Additional Names:	N/A
Nickel (Ni):	
Nickel (Ni): Percentage:	0-100 wt%
Percentage: CAS #: Phosphorus (P):	0-100 wt% 1295-35-8
Percentage:	0-100 wt%

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.	
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.	
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing	
	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 dust.	
Environmental Precautions:	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.	
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	
X7	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	
	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	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. Physical and Chemical Characteristics		
Color	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless (Garlic odor may indicate highly flammable, toxic gas)	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Density:	N/A	
Molecular weight:	148.36 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, Acids, Halogens, Strong bases	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	Harmful if absorbed through skin. May cause allergic reaction.	
Ingestion:	Harmful if swallowed	
Inhalation:	Harmful if inhaled	
Chronic:	N/A	
Chronic.	IV/A	
	NUM TO STATE	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A Besearch	
	all all to boot of the	
Median Lethal Dose:	N/A	
Carcinogen:	IARC: Group 1: Carcinogenic to humans	
	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, stat	te, national, and international regulations.	
	14. Transportation Data	
Hazardous:	Hazardous for transportation	
	9	
Hazard Class:	9 9 Miscellaneous hazardous substances	
Packing Group:	9 Miscellaneous hazardous substances III	
Packing Group: UN Number:	9 Miscellaneous hazardous substances III UN3077	
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Additional markings:	9 Miscellaneous hazardous substances III	

	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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