

LTS Research Laboratories, Inc. Safety Data Sheet Tantalum Nickel

	1. Product and Con	ipany identification
Trade Name:	Tantalum nic	kel
Chemical Formula:	TaNi	
Recommended Use:	Scientific res	earch and development
Manufacturer/Supplier:	LTS Research	h Laboratories, Inc.
Street:	37 Ramland I	Road
City:	Orangeburg	
State:	New York	
Zip Code:	10962	
Country:	USA	
Tel #:	855-587-243	6 / 855-lts-chem
24-Hour Emergency Contact:	800-424-930	0 (US & Canada)
		3887 (International)
	2. Hazards I	dentification
Signal Word:	Danger	
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Hazard Statements:	H315: Causes H317: May c H319 Causes H335: May c H351: Suspec	hable solid powder s skin irritation ause an allergic skin reaction serious eye irritation ause respiratory irritation cted of causing cancer s damage to organs through prolonged or repeated
Hazard Statements: Precautionary Statements:	 H315: Causes H317: May c H319 Causes H335: May c H351: Suspect H372: Causes exposure P210: Keep a smoking P260: Do not P305+P351+ several minut continue rinsis P363: Wash c P405: Store I P501: Dispose 	s skin irritation ause an allergic skin reaction serious eye irritation ause respiratory irritation cted of causing cancer s damage to organs through prolonged or repeated way from heat/sparks/open flames/hot surfaces – No breathe dust/fume/gas/mist/vapours/spray. P338: IF IN EYES: Rinse cautiously with water for tes. Remove contact lenses if present and easy to do – ing contaminated clothing before reuse
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3. Composition	
Chemical Family:	Metal alloy
Additional Names:	None
Tantalum (Ta):	
Percentage:	0-100 wt%
CAS #:	7440-25-7
EC #:	231-235-5
Nickel (Ni):	
Percentage:	0-100 wt%
CAS#:	7440-02-0
EC #:	231-111-4
	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. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – 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. See section 10 for
	decomposition products.
	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.
	Store in a cool dry place in a tightly sealed container. Store apart from
Storage Conditions:	
Storage Conditions:	materials and conditions listed in section 10.
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before

Permissible Exposure Limits:	1 mg/m ³ as Ni, long-term value
Threshold Limit Value:	1.5 mg/m ³ as Ni, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Color	Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity tories, Inc.

Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products: Stable under recommended storage conditions Acids, Halogens, Oxidizing agents None Metal oxide fume, Tantalum oxide, Nickel oxides

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes skin irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	IARC-2B: Possibly carcinogenic to humans: limited evidence in human in the absence of sufficient evidence in experimental animals. NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from epidemiologic studies. ACGIH A5: Not suspected as a human carcinogen: Not suspected as a human carcinogen on the basis of properly conducted epidemiologic studies in humans. Studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dost, and adequate statistical power to conclude that exposure to the agent does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	High
Very Persistent, Very Bioaccumulative: Notes:	No
Notes:	Very toxic for aquatic organism.
	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without proper
	governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into
	the ground.
	Also poisonous for fish and plankton in water bodies.
	Avoid transfer into the environment. Toxic to aquatic life.
	13. Disposal Considerations

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

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosive	
Packing Group:	Ш	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Tantalum nickel)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	
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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Document Last Revised:

07/24/2015