

## LTS Research Laboratories, Inc. Safety Data Sheet Tungsten Carbide-Nickel

	1. Product and Company Identification		
Trade Name:	Tungsten carbide-nickel		
Chemical Formula:	WC/Ni		
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 #:	845-587-2436 / 845-lts-chem		
24-Hour Emergency Contact:	800-424-9300 (US & Canada)		
	+1-703-527-3887 (International)		
	2. Hazards Identification		
Signal Word:	Danger		
Hazard Statements:	H228 Flammable solid powder H317 May cause allergic skin reaction H351 Suspected of causing cancer H372 Causes damage to lungs, kidneys, and liver through prolonged or repeated inhalative exposure.		
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3. Composition
Ceramic
None
0-100 wt%
12070-12-1
235-123-0
0-100 wt%
7440-02-0
231-111-4
4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek medical attention.
Wash affected area with mild soap and water. Remove any
contaminated clothing.
Flush eyes with water, blinking often for several minutes. Remove
contact lenses if present and easy to do. Continue rinsing
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5. Firefighting Measures
Non-flammable, except as powder
Use CO <sub>2</sub> , water spray, extinguishing powder for extinction.
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
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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Wash thoroughly after handling.
Store in a cool dry place in a tightly sealed container. Store apart from
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
compressed air.
Provide sufficient ventilation to maintain concentration at or below
threshold limit.

8. Exp	osure Controls and Personal Protection
Permissible Exposure Limits:	1.0 mg/m <sup>3</sup> as Nickel, long-term (USA)
Threshold Limit Value:	1.0 mg/m <sup>3</sup> as Nickel, long-term (USA)
Special Equipment:	None
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. Pl	hysical and Chemical Characteristics
Color	Grey
Form:	Target
Odor:	N/A
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
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Protect against electrostatic charges
Hazardous Decomposition Products:	Metal oxide fume, Carbon monoxide, Carbon dioxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Tungsten compounds may be irritating to the eyes and respiratory tract
	Chronic exposure may result in permanent lung damage.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative: Notes:	No N/A
	13. Disposal Considerations

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

Hazardous as powder only.
4.1 Flammable solids, self-reactive substances and solid desensitized explosives
III
UN3178
Flammable solid, inorganic, n.o.s. (Tungsten carbide-nickel)
15. Regulatory Information
No
N/A
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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Document Last Revised:

07/15/2015