

LTS Research Laboratories, Inc. Safety Data Sheet Manganese Tungsten Oxide

1. Product and Company Identification

Trade Name: Chemical Formula:	Manganese tungsten oxide		
Recommended Use:	MnWO ₄ 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:	H301: Toxic if swallowedH319 Causes serious eye irritation.H335: May cause respiratory irritationH332: Harmful if inhaled		
Precautionary Statements:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P280: Wear protective gloves/protective clothing/eye protection/face		
	protection P205 - P251 - P228 JE IN EVES. Direct continuate with write for several		
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for severa		
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTE		
	or doctor/physician		
	P405: Store locked up		
	P501: Dispose of contents/container in accordance with		
	local/regional/national/international regulations		
HMIS Health Ratings (0-4):			
Health:	local/regional/national/international regulations		
	local/regional/national/international regulations		

	3. Composition
Chemical Family:	Ceramic
Additional Names:	None
Manganese tungsten oxide (MnWO ₄):	:
Percentage:	100 wt%
CAS #:	14177-46-9
EC #:	NIL
	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:	Seek Medical Attention.
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
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 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. Store apart from
	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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below

8. Exp	oosure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	5 mg/m ³ as Mn, long-term value 0.2 mg/m ³ as Mn, long-term value
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. P	hysical and Chemical Characteristics
Color	Yellow
Form:	Powder
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	7.234 g/cc
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None None Nonatorias. Inc.
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Chronic exposure to manganese may cause impairment to the central
	nervous system. Symptoms include sluggishness, sleepiness, muscle
	weakness, loss of facial muscle control, edema, emotional disturbances,
	spastic gait and falling. 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:	No
Note:	NI/A

N/A

Notes:

13. Disposa	l Considerations
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14. Transportation Data			
Hazardous:	Not hazardous for transportation.		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
Sec 304 Reportable Quantities:	N/A		
Sec 313 Toxic Chemicals:	Yes		
	16. Other Information		

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

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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