

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Manganese Tellurium

1. Product and Company Identification Trade Name: Zinc manganese iron Chemical Formula: Zn/Mn/Te 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 earch atorias, inc. Hazard Statements: H301: Toxic if swallowed H315: Causes skin irritation H319: Causes serious eye irritation

Precautionary Statements:	P280: Wear proprotection P301+P310: IF a or doctor/physic P304+P340: IF in a position cor P370+P378: In a P305+P351+P33 several minutes. P405: Store lock P501: Dispose of	INHALED: Remove victim to fresh air and keep at rest nfortable for breathing case of fire: Use CO ₂ , sand, powder for extinction 38: IF IN EYES: Rinse cautiously with water for . Remove contact lenses if present and easy to do
HMIS Health Ratings (0-4):	Powder	Bulk
Health:	2	1
Flammability:	1	0
Physical:	2	1

H332: Harmful if inhaled

	3. Composition	
Chemical Family:	Metal alloy	
Additional Names:	N/A	
Zinc (Zn):		
Percentage:	0-100 wt%	
CAS #:	7440-66-6	
EC #:	231-175-3	
Manganese (Mn):		
Percentage:	0-100 wt%	
CAS #:	7439-96-5	
EC #:	231-105-1	
Tellurium (Te):		
Percentage:	0-100 wt%	
CAS #:	13494-80-9	
EC #:	236-813-4	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	Immediately remove any clothing soiled by the product. In case of	
	irregular breathing or respiratory arrest provide artificial respiration.	
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, 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: Storage Conditions:	Handle under dry protective gas. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry inert gas. 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 threshold limit.
8. E:	xposure Controls and Personal Protection
Permissible Exposure Limits:	0.1 mg/m ³ as Te, long-term value
Threshold Limit Value:	0.1 mg/m^3 as Te, 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:	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 C
Form:	Sputtering target
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
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Bases, Halogens, Interhalogens, Oxidizing agents
Incompatible Conditions:	Air, Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen telluride, Manganese oxides

11. Toxicological Information

	11. Toxicological information	
Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	83 mg/kg for rat by mouth	
Carcinogen:	EPA-I: Data are inadequate for an assessment of human carcinogenic potential	
	12. Ecological Information	
Aquatic Toxicity:	High	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	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,		
Dispose of in accordance with local, state,		
Dispose of in accordance with local, state, Hazardous:	, national, and international regulations.	
	, national, and international regulations. 14. Transportation Data	
	, national, and international regulations. 14. Transportation Data	
	, national, and international regulations. 14. Transportation Data	
Hazardous:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. Poison 6.1 Toxic Substances	
Hazard Class: Packing Group:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. POISON 6.1 Toxic Substances III	
Hazard Class: Packing Group: UN Number:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. Poison 6.1 Toxic Substances III UN3288	
Hazard Class: Packing Group:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. POISON 6.1 Toxic Substances III	
Hazard Class: Packing Group: UN Number:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. Poison 6.1 Toxic Substances III UN3288	
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. Foison 6.1 Toxic Substances III UN3288 Toxic solid, inorganic, n.o.s. (zinc manganese tellurium) 15. Regulatory Information No	
Hazard Class: Packing Group: UN Number:	, national, and international regulations. 14. Transportation Data Hazardous as powder only. For Son 6.1 Toxic Substances III UN3288 Toxic solid, inorganic, n.o.s. (zinc manganese tellurium) 15. Regulatory Information	

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.

Document Last Revised:

07/06/2015

