

LTS Research Laboratories, Inc. Safety Data Sheet Osmium

1. Product and Company Identification		
Trade Name:	Osmium	
Chemical Formula:	Os	
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:	H228: Flammable solid	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No	
	smoking	
	P240: Ground/bond container and receiving equipment	
	P241: Use explosion-proof electrical/ventilating/light/equipment	
	P280: Wear protective gloves/protective clothing/eye protection/face	
	protection	
	P370+P378: In case of fire: Use CO_2 or powder for extinction	
HMIS Health Ratings (0-4):	1	
Health:	1	
Flammability:	3	
Physical:	1	
	3. Composition	
Chemical Family:	Metal	
Additional Names:	None	
Osmium (Os): Percentage:	100 wt%	
	100 WL%	
5		
CAS #: EC #:	7440-04-2 231-114-0n	

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	
Q1-:	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	
	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.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
XX7 1 //X · · · X · ·	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	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
	threshold limit.	
8. E	xposure Controls and Personal Protection	
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
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.	
Penetration time of glove material: Eye Protection:	480 minutes Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
-	sleeves/pants.	

9. Physical and Chemical Characteristics		
Color	Blue grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Strong	
Water Solubility:	Insoluble	
Boiling Point:	5027 °C	
Melting Point:	3045 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	22.61 g/cc	
Molecular weight:	190.2 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
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:	N/A	
Signs & Symptoms:	N/A C Research	
Aggravated Medical Conditions:	N/A 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	
Notes:	N/A	
	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 explosives	
Packing Group:	П	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Osmium)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
	No	

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:

07/14/2015