

LTS Research Laboratories, Inc. Safety Data Sheet Mercury (II) sulfate

Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:

24-Hour Emergency Contact:

1. Product and Company Identification

Mercury (II) sulfate HgSO₄ Scientific research and development

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	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled.
	H373: May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated
	exposure. Route of exposure: oral, inhalation H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
	P262: Do not get in eyes, on skin, or on clothing.
	P264: Wash skin thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/ protective clothing. P284: Wear respiratory protection.
	P301+P310+P330: IF SWALLOWED: Immediately call a POISON
	CENTER/doctor, Rinse mouth.
	P302+P350+P310: IF ON SKIN: Gently wash with plenty of soap and
	water. Immediately call a POISON CENTER or doctor/ physician.
	P304+P340+P310: IF INHALED: Remove person to fresh air and keep
	comfortable for breathing. Immediately call a POISON CENTER/doctor.
	P314: Get medical advice/ attention if you feel unwell.
	P362: Take off contaminated clothing and wash before reuse.
	P391: Collect spillage. P403+P233: Store in a well-ventilated place. Keep container tightly
	closed.
	P405: Store locked up
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	4
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Salt
Additional Names:	Mercury sulfate, Mercuric sulfate
Mercury (II) sulfate (X_2Z_3) :	
Percentage:	100 wt%
CAS #: EC #:	7783-35-9 231-992-5

	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. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	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. Keep unprotected persons away. 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 dispersel. Take area pat to miss dust.
Environmental Precautions:	container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Avoid contact with skin and eyes. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store under dry inert gas. This product is light sensitive, moisture sensitive, air sensitive. Protect from humidity and water. 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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. E	xposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	0.1 mg/m ³ as Hg, long-term value 0.025 mg/m ³ as Hg, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute
Respiratory Protection: Protective Gloves:	Dust Respirator Nitrile rubber gloves with minimum thickness of 0.11 mm
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	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A N/A
Boiling Point: Melting Point:	N/A N/A
Flash Point:	N/A N/A
Autoignition Temperature:	N/A
Density:	6.47 g/cc
Molecular weight:	296.65 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions: Hazardous Decomposition Products:	Water/moisture Metal oxide fume, sulphur oxides, mercury/mercury oxides.
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Fatal if in contact with skin. Danger through skin absorption.
Ingestion:	Fatal if swallowed
Inhalation:	Fatal if inhaled
Chronic:	May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: oral, inhalation
Signs & Symptoms:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breat headache, and nausea
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	57 mg/kg for rat by mouth
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity:	Toxicity to fish LC50 - Oncorhynchus gorbuscha - 0.14 mg/l – 7 d (Mercury sulphate)
	Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 0.033 mg/l – 14 d (Mercury sulphate)
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Do not allow product to reach ground water, water course or sewage system, even in small quantities.
	Danger to drinking water if even extremely small quantities leak into the ground.
	Avoid transfer into the environment.
	Also poisonous for fish and plankton in water bodies.
	May cause long lasting harmful effects to aquatic life.
	Very toxic for aquatic organisms
	13. Disposal Considerations

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

14. Transportation Data		
Hazardous:	Hazardous for transportation	
Hazard Class:	6.1 Toxic substances	
Packing Group:	Π	
UN Number:	UN1645	
Proper Shipping Name:	Mercury sulfates	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	10 lbs	
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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