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## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURIC II SULPHIDE (RED) LR

#### 1. Product Identification

**Synonyms:** Mercury(II) sulfide, red, 99.5+%  
**CAS No.:** 1344-48-5

Product Coad: M0135400100

**Molecular Weight:** 232.65  
**Chemical Formula:** HgS

#### 2. Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1344-48-5	Mercury(II) sulfide, red	99.5+%	215-696-3

#### 3 - Hazards Identification

##### EMERGENCY OVERVIEW

Appearance: red powder. Danger! May cause central nervous system effects. May cause eye and skin irritation. May cause respiratory tract irritation. Very toxic by inhalation, in contact with skin and if swallowed. May be fatal if inhaled, absorbed through the skin or swallowed. Danger of cumulative effects.

Target Organs: Kidneys, central nervous system.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be fatal if absorbed through the skin.

Ingestion: May be fatal if swallowed. May cause irritation of the digestive tract. May cause central nervous system effects.

Inhalation: May be fatal if inhaled. May cause respiratory tract irritation.

Chronic: May cause kidney injury. Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, personality changes.

#### 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

#### 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 4; Flammability: 0; Instability: 0

#### 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

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#### 7 - Handling and Storage

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

#### 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Mercury(II) sulfide, red	none listed	none listed	none listed

OSHA Vacated PELs: Mercury(II) sulfide, red: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### 9 - Physical and Chemical Properties

Physical State: Powder

Appearance: bright red - red

Odor: none reported

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 583.5 deg C subl

Decomposition Temperature: Not available.

Solubility: Insoluble.

Specific Gravity/Density: 8.1000g/cm<sup>3</sup>

Molecular Formula: HgS

Molecular Weight: 232.65

#### 10 - Stability and Reactivity

Chemical Stability: May decompose when exposed to light.

Conditions to Avoid: Light, dust generation, temperatures above 250°C.

Incompatibilities with Other Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Oxides of sulfur, mercury/mercury oxides.

Hazardous Polymerization: Has not been reported

#### 11 - Toxicological Information

RTECS#:

CAS# 1344-48-5: OX0720000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 1344-48-5:

IARC: IARC Group 3 - not classifiable (listed as Mercury inorganic compounds).

Epidemiology: No information found.

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Teratogenicity: No information found.  
 Reproductive Effects: No information found.  
 Neurotoxicity: No information found.  
 Mutagenicity: No information found.  
 Other Studies: The toxicological properties have not been fully investigated.

#### 12 - Ecological Information

No information available.

#### 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.  
 RCRA U-Series: None listed.

#### 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	MERCURY COMPOUNDS, SOLID, N.O.S.				No information available.
Hazard Class:	6.1				
UN Number:	UN2025				
Packing Group:	III				

#### 15 - Regulatory Information

US FEDERAL  
 TSCA

CAS# 1344-48-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Mercury(II) sulfide, red (listed as Mercury compounds), 99.5%, (CAS# 1344-48-5) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 1344-48-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

WARNING: This product contains Mercury(II) sulfide, red, listed as 'Mercury compounds', a chemical known to the state of California to cause birth defects or other reproductive harm. California No Significant Risk Level: None of the chemicals in this product are listed.

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**MATERIAL SAFETY DATA SHEET (MSDS)****MERCURIC II SULPHIDE (RED) LR**

## European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T+

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 1344-48-5: No information available.

Canada - DSL/NDSL

CAS# 1344-48-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D1A.

Canadian Ingredient Disclosure List

CAS# 1344-48-5 (listed as Mercury, aryl and inorganic compounds) is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

**16 - Other Information****Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**