

SAFETY DATA SHEET

Preparation Date: 7/28/21 Revision Date: Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

Product code: C5259

Product Name: MERCURIC SULFIDE, RED POWDER, REAGENT

Other means of identification

Synonyms: Almaden

C.I. 77766

C.I. Pigment Red 106 Chinese vermilion

Cinnabar

Ethiops mineral Mercuric Sulfide Red Mercuric Sulfide, Black

Mercuric Sulfide, Blad Mercury sulfide Mercury sulphide Mercury(2+) sulfide Monomercury sulfide Orange vermilion Pigment Red 106 Red cinnabar

Red mercury sulphide Scarlet vermilion

Vermilion

beta-Mercuric sulfide

CAS #: 1344-48-5
RTECS # OX0720000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: For manufacturing or laboratory use only.

Uses advised against Not for food or drug use.

Supplier: Lab Alley LLC

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669

Tel.: 512-668-9918

Order Online At: https://www.laballey.com/products/mercuric-sulfide-100g

Emergency telephone number InfoTrac: 800-535-5053

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product code: C5259 Product name: MERCURIC SULFIDE,

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1

Label elements

Danger

Hazard statements

Harmful if swallowed

May cause an allergic skin reaction



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Do not eat, drink or smoke when using this product

Wear protective gloves

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Product code: C5259

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Mercuric Sulfide	1344-48-5	100

4. FIRST AID MEASURES

Product name: MERCURIC SULFIDE, RED POWDER, REAGENT

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation. May cause an allergic skin reaction. May cause sensitization

by skin contact. May cause irritation of respiratory tract. Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Mercury oxides. Sulfur Oxides.

Specific hazards: May be combustible at high temperatures

Special Protective Actions for Firefighters

Specific Methods:No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid

contact with skin, eyes and clothing. Wear personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Avoid breathing dust. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Do not ingest. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Sensitive to light. Store in light-resistant containers. Protect from light. Store in a segregated and approved area. Store away from incompatible materials. Store at controlled room temperature.

Incompatible Materials:

Strong oxidizing agents Acids Halogens metal oxides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

L	Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
	Mercuric Sulfide	1344-48-5	None	None	None	None

Canada

Components CAS-No. Canada - Alber	Canada - British	Canada - Ontario	Canada - Quebec
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			Columbia		
Mercuric Sulfide	1344-48-5	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Mercuric Sulfide	1344-48-5	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Gloves. Long sleeved clothing. Chemical resistant apron.

Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator

under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidPowder.Red.

Odor:TasteFormula:Odorless.No information available.HgS

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

232.65 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 583.5°C (1082.3°F) No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available 1.07 8.1

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Product code: C5259 Product name: MERCURIC SULFIDE,

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

No information available

Viscosity:

No information available

Miscibility: Solubility:

No information available Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Sensitive to light. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Exposure to light. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Acids Halogens metal oxides

Hazardous decomposition

products:

Mercury/mercury oxides. Sulfur oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Ingestion. Inhalation.

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The following values are calculated based on chanter 3.1 of the GHS

The following values are calculated based on chapter 3.1 of the GHS document Component Information

Mercuric Sulfide

Acute Toxicity

CAS-No. 1344-48-5

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

MERCURIC SULFIDE, 6 / 11

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. May cause sensitization by skin contact. May cause

allergic skin reaction.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Harmful if swallowed. May cause digestive (gastointestinal) tract irritation.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Mercuric Sulfide	1344-48-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

Product code: C5259

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Product name: MERCURIC SULFIDE, RED POWDER, REAGENT

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Mercuric Sulfide	1344-48-5	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2025

Proper Shipping Name: Mercury compounds, solid, n.o.s. (mercuric sulfide)

Hazard Class: 6.1

Subsidiary Class No information available

Packing group: II Emergency Response Guide 151

Number

Marine Pollutant
DOT RQ (lbs):
Special Provisions
Symbol(s):
No data available
No information available
IB8, IP2, IP4, T3, TP33
No information available

Description: UN2025, Mercury compounds, solid, n.o.s. (Mercuric Sulfide), 6.1, II

Product code: C5259 Product name: MERCURIC SULFIDE, 8 / 11

TDG (Canada)

UN-No: UN2025

Proper Shipping Name: Mercury compound, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN2025, Mercury compound, solid, n.o.s., 6.1, II

ADR

UN-No: UN2025

Proper Shipping Name: Mercury compound, solid, n.o.s.

Hazard Class: 6.1 Packing Group:

Subsidiary Risk: No information available Special Provisions 43, 274, 529, 585, 66

Description: UN2025, Mercury compound, solid, n.o.s. (Mercuric Sulfide), 6.1, II

IMO / IMDG

UN-No: UN2025

Proper Shipping Name: Mercury compounds, solid, n.o.s. (mercuric sulfide)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Special Provisions 274, 43, 66

Description UN2025, Mercury compound, solid, n.o.s. (Mercuric Sulfide), 6.1, II

RID

UN-No: UN2025

Proper Shipping Name: Mercury compound, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Special Provisions 43, 274, 529, 585, 66

Description: UN2025, Mercury compound, solid, n.o.s. (Mercuric Sulfide), 6.1, II

ICAO

UN-No: UN2025

Proper Shipping Name: Mercury compound, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN2025, Mercury compound, solid, n.o.s. (Mercuric Sulfide), 6.1, II

Special Provisions A3, A5, A6, A18

IATA

UN-No: UN2025

Proper Shipping Name: Mercury compound, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: II ERG Code: 6L

Product code: C5259

Special Provisions No information available

Description: UN2025, Mercury compound, solid, n.o.s. (Mercuric Sulfide), 6.1, II

15. REGULATORY INFORMATION

Product name: MERCURIC SULFIDE, RED POWDER, REAGENT

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Mercuric Sulfide	1344-48-5	Present	Present KE-23133	Present	Present (1)-438	Present	Present	Present 215-696-3

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Mercuric Sulfide	1344-48-5	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Mercuric Sulfide	1344-48-5	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	, , ,
Mercuric Sulfide	1344-48-5	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D1B Toxic materials

D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

	CAS-No.	Canada (DSL)	Canada (NDSL)
Mercuric Sulfide	1344-48-5	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances	
Mercuric Sulfide	1344-48-5	Not listed CEPA - 2010 Greenhouse Gases Subject	
Components	CAS-No.		
		to Mandatory Reporting	
Mercuric Sulfide	1344-48-5	Not listed	

Product code: C5259 10/11 Product name: MERCURIC SULFIDE,

EU Classification

R-phrase(s)

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

S -phrase(s)

S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

S46 - If swallowed, seek medical advice immediately and show this container or label.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Mercuric Sulfide	1344-48-5		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.

Xn



16. OTHER INFORMATION

Preparation Date: 7/28/21
Revision Date: Not Applicable

Prepared by: Lab Alley

Disclaimer:

Product code: C5259

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Lab Alley LLC assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product name: MERCURIC SULFIDE, RED POWDER, REAGENT 11 / 11