

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Mercury

CAS number 7439-97-6

Synonyms Colloidal mercury; hydrargyrum; metallic mecury

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory reagent

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals Category 1
Acute Inhalation Toxicity - Vapors Category 2
Reproductive Toxicity Category 1B
Specific target organ toxicity - (repeated exposure) Category 1

Target Organs - Central nervous system (CNS), Kidney

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements May be corrosive to metals. Fatal if inhaled. May damage the unborn

child. Causes damage to organs through prolonged or repeated

exposure.

Precautionary Statements

Prevention Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing. Wash face, hands and any exposed skin thoroughly after handling. Do not eat,

drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-

ventilated area. Wear respiratory protection.

Response IF exposed or concerned: Get medical attention/advice.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER or

doctor/physician.

Skin Immediately call a POISON CENTER or doctor/physician. IF ON SKIN:

Gently wash with plenty of soap and water. Remove/Take off

immediately all contaminated clothing. Wash contaminated clothing

before reuse.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly

closed.

Disposal Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Mercury	Colloidal mercury; metallic mercury	7439-97-6	100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

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If inhaled Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory device. Immediate medical attention is required.

In case of skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Immediate medical attention is required.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

If swallowedDo not induce vomiting. Call a physician or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Very toxic. Non-combustible, substance itself does not burn but may decompose upon heating to product corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

UpperNo data available.LowerNo data available.

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

NFPA

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Health	Flammability	Instability	Physical hazards
4	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus and protective suit. Evecuate personnel to safe areas. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

Wear self-contained breathing apparatus and protective suit. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

Incompatibilities

No information available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
	TWA	0.05 mg/m3
Mercury	STEL	0.03 mg/m3

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Ceiling	0.1 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
Mercury	TWA	0.025 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Mercury	IDLH	10 mg/m3
	TWA	0.05 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilatoin, espicially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.13 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Silver
Odor Odorless

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Odor Threshold No information available. pH No information available.

Melting Point/Range -38.87 °C / -38 °F
Boiling Point/Range 356.72 °C / 674.1 °F
Evaporation Rate No information available.
Flammability (solid) No information available.

Flammability or explosive limit

Upper No data available.

Lower No data available.

Vapor Pressure 0.002 mmHg @ 25 °C

Vapor Density 7.0

Density 13.59 (H2O=1)
Solubility Insoluble in water
Partition coefficient; n-octanol/water No data available.

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula Hg
Molecular Weight 200.59

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Strong oxidizing agents, ammonia, metals, halogens.

10.6 Hazardous decomposition products

Mercury oxide, highly toxic fumes

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Product Information, Component Information

Acute toxicity

No information available.

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Mercury	7439-97-6	Not listed				

Specific target organ toxicity - single exposure

None known

Specific target organ toxicity - repeated exposure

Central nervous system (CNS), kidney

Reproductive toxicity

No information available

Chronic effects

No information available

11.2 Additional Information

No information available

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
Mercury	LC50	Freshwater Fish	0.9-0.18 mg/L 96 h
	EC50	Water Flea	5.0 μg/L 96 h

12.2 Persistence and degradability

No information available.

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12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN2809
Proper Shipping Name MERCURY

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

IMDG

UN-No UN2809
Proper Shipping Name MERCURY

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

IATA

UN-No UN2809
Proper Shipping Name MERCURY

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

SECTION 15: Regulatory information

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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed (MERCURY (7439-97-6)) Section 5

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed (MERCURY (7439-97-6)) 1 lb

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed (MERCURY (7439-97-6)) Acute Health Hazard Chronic Health Hazard

SARA 313 (TRI reporting)

Listed (MERCURY (7439-97-6)) Weight: 100%, Threshold Values: 1.0%

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed (MERCURY (7439-97-6))

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Listed (MERCURY (7439-97-6))

Toxic Polluctants

Priority Polluctants

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed (MERCURY (7439-97-6))

US. New Jersey Worker and Community Right-to-Know Act

Listed (MERCURY (7439-97-6))

US. Pennsylvania Worker and Community Right-to-Know Law

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Listed (MERCURY (7439-97-6))

California Proposition 65

Listed (MERCURY (7439-97-6) Developmental

SECTION 16: Other information

Issue date: 08/20/2014 Revision 1: 08/20/2019 Revision 2: 07/16/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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