

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 Quicksilver

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

Identified uses Laboratory chemicals.

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)

Acute Inhalation Toxicity

Reproductive Toxicity

Specific Target Organ Toxicity (repeated exposure)

Category 1

Category 1

Target Organ(s) - Central nervous system (CNS), Kidney, Liver

2.2 GHS Label elements, including precautionary statements

Laballey.com Page 1 of 11

Pictogram



Signal Word Danger

Hazard statements 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 breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product.

Response: IF exposed or concerned, get medical attention/advice.

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.

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.

WARNING: Reproductive Harm - https://www.p65warnings.ca.gov/.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Mercury	Quicksilver	7439-97-6	100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

Laballey.com Page 2 of 11

General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical

attention is required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. 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 swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

4.2 Most important symptoms and effects, both acute and delayed

Neurological disorders. May cause central nervous system depression. May cause adverse kidney effects. May cause adverse liver effects. Symptoms may be delayed. Chronic exposure damages the brain and the central nervous system.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

Unsuitable extinguishing mediaNo 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 produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous Combustion Products: Mercury oxide. Toxic fumes.

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. Thermal decomposition can lead to release of irritating gases and vapors.

Laballey.com Page 3 of 11

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

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

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Laballey.com Page 4 of 11

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Do not store in metal containers.

Incompatibilities

Strong oxidizing agents. Ammonia. Metals. Halogens.

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
Mercury	(Vacated) TWA	0.05 mg/m3
	Ceiling	0.1 mg/m3
	(Vacated) STEL	0.03 mg/m3 Skin
	(Vacated) Ceiling	0.1 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Mercury	TWA	0.025 mg/m3 Skin

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
	IDLH	10 mg/m3
Mercury	TWA	0.05 mg/m3
	Ceiling	0.1 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 ventilation, especially 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 1910.133 or European Standard EN166.

Skin protection

Laballey.com Page 5 of 11

Wear appropriate protective gloves and clothing to prevent skin exposure.

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.

Recommended Filter type: Particulates filter conforming to EN 143, or Inorganic gases and vapours filter. Type B. Grey. Conforming to EN14387.

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

Odor Threshold No information available

pH Not applicable
Melting Point/Range -38.9 °C / -38 °F
Boiling Point/Range 356.5 °C / 673.7 °F
Evaporation Rate No information available

Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure 0.01 hPa @ 20 °C

Vapor Density 7
Density 13.54
Solubility Insoluble

Partition coefficient: No data available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

1.554 cP at 20 °C

Molecular Formula Hg

Molecular Weight 200.59 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

Laballey.com Page 6 of 11

SECTION 10: Stability and reactivity

10.1 Reactivity

No 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, Toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercury	-	-	< 27 mg/m3 (Rat) 2h

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

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

Laballey.com Page 7 of 11

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

Central nervous system (CNS), Kidney, Liver.

Reproductive toxicity

May cause harm to the unborn child.

Chronic effects

May cause central nervous system depression. May cause adverse kidney effects. May cause adverse liver effects. Symptoms may be delayed. Chronic exposure damages the brain and the central nervous system.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system.

Product	Species	Test Results
Mercury	Freshwater Fish	LC50 = 0.9 mg/L, 96h LC50 = 0.18 mg/L, 96h LC50 = 0.16 mg/L, 96h LC50 =0.5 mg/L, 96h

12.2 Persistence and degradability

Insoluble in water. May persist.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Is not likely mobile in the environment due its low water solubility.

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.

Laballey.com Page 8 of 11

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.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Mercury - 7439-97-6	U151	-

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

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 (CAS #7439-97-6), Section 5.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Mercury (CAS #7439-97-6), RQ: 1 lb.

SARA 304 Emergency release notification

Laballey.com Page 9 of 11

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

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Mercury (CAS #7439-97-6).

Other federal regulations

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

Listed, Mercury (CAS #7439-97-6).

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

Not regulated.

Clean Water Act (CWA)

Listed, Mercury (CAS #7439-97-6).

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

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Mercury (CAS #7439-97-6).

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

Listed, Mercury (CAS #7439-97-6).

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

Listed, Mercury (CAS #7439-97-6).

California Proposition 65

Listed, Mercury (CAS #7439-97-6).

SECTION 16: Other information

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

Laballey.com Page 10 of 11

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.

Laballey.com Page 11 of 11