Printing date 07/21/2021

Reviewed on 07/21/2021

# **1** Identification

- · Product name
- Trade name: <u>Mercury (99.999%) (ACS)</u>
- Item number: 93-8046
- CAS Number: 7439-97-6
- **EC number:** 231-106-7
- Index number: 080-001-00-0
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- *Emergency telephone number: EMERGENCY: CHEMTREC:* + 1 (800) 424-9300 *During normal opening times:* +1 (978) 499-1600

### 2 Hazard(s) identification

# · Classification of the substance or mixture GHS06 Skull and crossbones Acute Tox. 3 H311 Toxic in contact with skin. GHS08 Health hazard Repr. 1B H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. STOT RE 1 GHS05 Corrosion Skin Corr. 1C H314 Causes severe skin burns and eye damage. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 GHS06 GHS08 · Signal word Danger (Contd. on page 2)



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Trade name: Mercury (99.999%) (ACS)	
	(Contd. of page 1)
· Hazard-determining components of labeling:	
mercury	
· Hazard statements	
H311 Toxic in contact with skin.	
H314 Causes severe skin burns and eye damage.	
H360 May damage fertility or the unborn child.	
H372 Causes damage to organs through prolonged or repeated	exposure.
· Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vapors/s	
P280 Wear protective gloves/protective clothing/	
P303+P361+P353 If on skin (or hair): Take off immediately shower.	all contaminated clothing. Rinse skin with water/
P305+P351+P338 If in eyes: Rinse cautiously with water for and easy to do. Continue rinsing.	several minutes. Remove contact lenses, if present
P403+P233 Store in a well-ventilated place. Keep conta	iner tightly closed.
	ance with local/regional/national/international
• Classification system: • NFPA ratings (scale $0 - 4$ ) Health = 4 Fire = 0	
<ul> <li>4 0 Reactivity = 0</li> <li>• HMIS-ratings (scale 0 - 4)</li> </ul>	
HEALTH*4Health = *4FIRE $\bigcirc$ Fire = 0REACTIVITY $\bigcirc$ Reactivity = 0	
<ul> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul>	
3 Composition/information on ingredients	
Chemical characterization: Substances     CAS No. Description     7439-97-6 mercury	

- Identification number(s)
- EC number: 231-106-7
- · Index number: 080-001-00-0

# 4 First-aid measures

### · Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

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- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:

Trade name: Mercury (99.999%) (ACS)

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** *Fire-fighting measures*

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

<i>PAC-2:</i>	1.7 mg/m3
	0.15 mg/m3
PAC-1:	
Protective Action Criteria for Chemicals	
See Section 13 for disposal information.	
See Section 8 for information on personal protection equipment.	
See Section 7 for information on safe handling.	
Reference to other sections	
Ensure adequate ventilation.	
Use neutralizing agent. Dispose contaminated material as waste according to item 13.	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Methods and material for containment and cleaning up:	
Inform respective authorities in case of seepage into water course or sewage system.	
Do not allow product to reach sewage system or any water course.	
Environmental precautions:	
Wear protective equipment. Keep unprotected persons away.	
Mount respiratory protective device.	

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

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- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

#### 7439-97-6 mercury

- PEL Long-term value: 0.1 mg/m<sup>3</sup> as Hg; see OSHA standard interpretation memo
- REL Long-term value: 0.05\* mg/m<sup>3</sup> Ceiling limit value: 0.1 mg/m<sup>3</sup> as Hg; \*Vapor; Skin
- TLV Long-term value: 0.025 mg/m<sup>3</sup> as Hg; Skin; BEI

#### · Ingredients with biological limit values:

#### 7439-97-6 mercury

*BEI* 35 µg/g creatinine Medium: urine Time: prior to shift Parameter: Total inorganic mercury (background

15 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Total inorganic mercury (background)

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment: Wear protective clothing

· General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

• Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  **Material of gloves**
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

Odor threshold:Not determined.pH-value:Not determined.Change in condition Melting point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Boiling point/Boiling range:Not applicable.Flash point:Not applicable.Flammability (solid, gaseous):Not determined.Ignition temperature:Not determined.Decomposition temperature:Not determined.Danger of explosion:Product does not present an explosion hazard.Explosion limits: Upper:Not determined.Vapor pressure at 20 °C (68 °F):0.00163 hPaDensity at 20 °C (68 °F):13.54 g/cm³ (112.9913 lbs/gal) Not determined.Vapor density Vapor densityNot determined.Vapor density Vapor densityNot determined.Not determined. Not determined.Not determined.	Appearance:		
Odor:OdorlessOdor threshold:Not determined.pH-value:Not determined.Change in conditionUndetermined.Melting point/Melting range:356.9 °C (674 °F)Flash point:Not applicable.Flammability (solid, gaseous):Not determined.Ignition temperature:Not determined.Decomposition temperature:Not determined.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure at 20 °C (68 °F):0.00163 hPaDensity at 20 °C (68 °F):13.54 g/cm³ (112.9913 lbs/gal)Relative densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor density in / Miscibility withHord etermined.	Form:	Liquid	
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Flash point:Not applicable.Flammability (solid, gaseous):Not determined.Ignition temperature:Not determined.Decomposition temperature:Not determined.Auto igniting:Not determined.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure at 20 °C (68 °F):0.00163 hPaDensity at 20 °C (68 °F):13.54 g/cm³ (112.9913 lbs/gal)Relative densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with	Melting point/Melting range:	Undetermined.	
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• Auto igniting:       Not determined.         • Danger of explosion:       Product does not present an explosion hazard.         • Explosion limits:       Image: Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapor pressure at 20 °C (68 °F):       0.00163 hPa         • Density at 20 °C (68 °F):       13.54 g/cm³ (112.9913 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Not determined.	Ignition temperature:		
Danger of explosion:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapor pressure at 20 °C (68 °F):       0.00163 hPa         • Density at 20 °C (68 °F):       13.54 g/cm <sup>3</sup> (112.9913 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Not determined.	Decomposition temperature:	Not determined.	
<ul> <li>Explosion limits: Lower: Vot determined. Not determined. Not determined.</li> <li>Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Not determined.</li> <li>Vapor density Not determined. Not determined.</li> <li>Vapor density Not determined.</li> <li>Solubility in / Miscibility with</li> </ul>	Auto igniting:	Not determined.	
Lower: Upper:Not determined.Vapor pressure at 20 °C (68 °F):0.00163 hPa• Density at 20 °C (68 °F):13.54 g/cm³ (112.9913 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.• Evaporation rateNot determined.• Solubility in / Miscibility with	Danger of explosion:	Product does not present an explosion hazard.	
Upper:Not determined.• Vapor pressure at 20 °C (68 °F):0.00163 hPa• Density at 20 °C (68 °F):13.54 g/cm³ (112.9913 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.• Vapor densityNot determined.• Evaporation rateNot determined.• Solubility in / Miscibility with	Explosion limits:		
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• Density at 20 °C (68 °F):       13.54 g/cm³ (112.9913 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Evaporation rate       Not determined.         • Solubility in / Miscibility with       Not determined.	Upper:	Not determined.	
• Relative density       Not determined.         • Vapor density       Not determined.         • Evaporation rate       Not determined.         • Solubility in / Miscibility with       Not determined.	Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$ ):	0.00163 hPa	
• Relative density       Not determined.         • Vapor density       Not determined.         • Evaporation rate       Not determined.         • Solubility in / Miscibility with       Not determined.	<i>Density at 20 °C (68 °F):</i>	13.54 g/cm <sup>3</sup> (112.9913 lbs/gal)	
• Evaporation rate     Not determined.       • Solubility in / Miscibility with     • • • • • • • • • • • • • • • • • • •			
Solubility in / Miscibility with	Vapor density	Not determined.	
	Evaporation rate	Not determined.	
	Solubility in / Miscibility with		
	• •	Not miscible or difficult to mix.	

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		(Contd. of page 5
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	$0.0 \ g/l \ / \ 0.00 \ lb/gl$	
• Other information	No further relevant information available.	

### **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11** Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

#### · NTP (National Toxicology Program)

Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

# **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

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Trade name: Mercury (99.999%) (ACS)

- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.* 

UN-Number DOT, IMDG, IATA	UN2809
	01/2007
UN proper shipping name DOT	Mercury
IMDG	MERCURY, MARINE POLLUTANT
IATA	MERCURY
Transport hazard class(es)	
DOT	
CORROSIVE 8 8	
Class	8 Corrosive substances
Label	8, 6.1
Class	8 Corrosive substances
Label	8/6.1
IATA	
Class	8 Corrosive substances
Label	8 (6.1)
Packing group	

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	(Contd. of page
· Environmental hazards:	
• Marine pollutant:	No
-	Yes (DOT)
	Symbol (fish and tree)
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	80
· Segregation groups	Heavy metals and their salts (including their organometalli compounds), mercury and mercury compounds
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· Segregation Code	SG24 Stow "away from" azides
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	c II of Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 35 kg
	On cargo aircraft only: 35 kg
· Hazardous substance:	1 lbs, 0.454 kg
·IMDG	
$\cdot$ Limited quantities (LQ)	5 kg
$\cdot Excepted$ quantities ( $\widetilde{E}Q$ )	Code: E0
	Not permitted as Excepted Quantity

# **15 Regulatory information**

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara
- · Section 355 (extremely hazardous substances):
- Substance is not listed.
- · Section 313 (Specific toxic chemical listings):
- Substance is listed.
- · TSCA (Toxic Substances Control Act):
- Substance is listed.
- · Proposition 65
- Chemicals known to cause cancer:
- Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females:
- Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males:
- Substance is not listed.
- · Chemicals known to cause developmental toxicity:
- Substance is listed.

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

· TLV (Threshold Limit Value established by ACGIH)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: mercury · Hazard statements H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. · Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305+P351+P338 If in eves: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

· Date of preparation / last revision 07/21/2021 / -

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation
- IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit BEI: Biological Exposure Limit Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1C: Skin corrosion/irritation – Category 1D STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 (Contd. of page 9)

