

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier

Product form : Mixture

Product name : Mercuric Chloride, 5% w/v

Product code : LC16600

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

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 2 (Oral) H300
Acute Tox. 3 (Dermal) H311
Carc. 2 H351
Repr. 2 H361
STOT RE 2 H373
Aquatic Acute 1 H400
Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)







GHS06 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H300 - Fatal if swallowed

H311 - Toxic in contact with skin H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (nervous system) through prolonged or repeated

exposure

H411 - Toxic to aquatic life with long lasting effects
: P201 - Obtain special instructions before use

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe mist

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

P302+P352 - IF ON SKIN: Wash with plenty of soap and water P308+P313 - IF exposed or concerned: Get medical advice/attention

P312 - Call a POISON CENTER/doctor if you feel unwell

P330 - If swallowed, rinse mouth

P361 - Remove/Take off immediately all contaminated clothing

P363 - Wash contaminated clothing before reuse

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P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

Other hazards 2.3

Other hazards not contributing to the classification

: None under normal conditions.

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	95	Not classified
Mercuric Chloride	(CAS No) 7487-94-7	5	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Immediately call a poison center or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Fatal if swallowed. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system).

Symptoms/injuries after inhalation

: No data available.

Symptoms/injuries after skin contact

Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

Symptoms/injuries after eye contact Symptoms/injuries after ingestion

No data available. Fatal if swallowed.

Chronic symptoms

: Impairment of the nervous system.

Indication of any immediate medical attention and special treatment needed

Hospitalize at once.

SECTION 5: Firefighting measures

Extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters 5.3.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

: Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Avoid breathing mist.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Mercuric Chloride, 5% w/v

ACGIH	Not applicable	
OSHA	Not applicable	
Mercuric Chloride (7487-94-7)		
ACGIH TWA (mg/m³) 0.025 mg/m³		0.025 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³

	Water (7732-18-5)	
ACGIH Not applicable		Not applicable
	OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Protective clothing.

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Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless
Odor : None.

Odor threshold No data available рΗ No data available No data available Melting point Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** : No data available Explosive properties No data available Oxidizing properties No data available Vapor pressure : No data available Relative density No data available Relative vapor density at 20 °C : No data available

Water: Solubility in water of component(s) of the mixture :

· Mercuric Chloride: 6.9 g/100ml

Soluble in water.

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Solubility

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Hydrogen chloride. mercury.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

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Mercuric Chloride, 5% w/v LD50 oral rat 20 mg/kg LD50 dermal rat 820 mg/kg ATE US (coral) 20.000 mg/kg body weight Mercuric Chloride (7487-94-7) LD50 oral rat 4 1 mg/kg (Rat) LD50 dermal rat 4 1 mg/kg (Rat) ATE US (coral) 4 1.000 mg/kg body weight Mercuric Chloride (7487-94-7) LD50 oral rat 4 1 mg/kg (Rat) ATE US (coral) 1.000 mg/kg body weight ATE US (coral) 1.000 mg/kg body weight ATE US (coral) 1.000 mg/kg body weight ATE US (coral) 2.0000 mg/kg body weight ATE US (coral) 4.000 mg/kg body weight Water (7732-18-5) LD50 oral rat 2 90000 mg/kg ATE US (oral) 90000.000 mg/kg body weight Serious eye damage/irritation Not classified Serious eye damage/irritation Not classified Germ cell mutagenicity Not classified Germ cell mutagenicity Suspected of causing cancer. Mercuric Chloride (7487-94-7) IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity Suspected of damaging fertility or the unborn child. Specific target organ toxicity (repeated exposure) Not classified Specific target organ toxicity (repeated exposure) Aspiration hazard Not classified Based on available data, the classification criteria are not met. Toxic in contact with skin. Fata if swallowed. Symptoms/injuries after inhalation Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Vo data available. Symptoms/injuries after skin contact No data available. Symptoms/injuries after skin contact No data available. No data available. No data available.	ccording to Federal Register / Vol. 77, No. 58 / Monday,	· · · · · · · · · · · · · · · · · · ·
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Symptoms/injuries after ingestion : Fatal if swallowed.	Symptoms/injuries after eye contact	: No data available.
Chronic symptoms : Impairment of the nervous system.	Symptoms/injuries after ingestion	: Fatal if swallowed.
	Chronic symptoms	: Impairment of the nervous system.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Mercuric Chloride (7487-94-7)			
LC50 fish 1	0.03 mg/l (96 h; Poecilia reticulata)		
EC50 Daphnia 1	0.0081 mg/l (24 h; Daphnia magna)		
LC50 fish 2	0.04 mg/l (96 h; Cyprinus carpio)		
EC50 Daphnia 2	0.003 mg/l (48 h; Daphnia magna)		
TLM fish 1	0.82 mg/l (168 h; Carassius auratus)		
Threshold limit algae 1	0.08 mg/l (Selenastrum capricornutum)		
Threshold limit algae 2	0.07 mg/l (Scenedesmus quadricauda)		

12.2. Persistence and degradability

Mercuric Chloride, 5% w/v		
Persistence and degradability May cause long-term adverse effects in the environment.		
Mercuric Chloride (7487-94-7)		
Persistence and degradability Biodegradability: not applicable. No test data on mobility of the substance available.		

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Mercuric Chloride (7487-94-7)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Mercuric Chloride, 5% w/v		
Bioaccumulative potential	Not established.	
Mercuric Chloride (7487-94-7)		
BCF fish 1	10000 (Pisces)	
BCF fish 2	500 - 4620 (Cyprinus carpio; Test duration: 10 weeks)	
BCF other aquatic organisms 1	10000 (Ostreidae)	
Log Pow	0.1 - 0.22 (Calculated)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
Water (7732-18-5)		
Bioaccumulative potential Not established.		

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2024 Mercury compounds, liquid, n.o.s. (Mercuric chloride), 6.1, II

UN-No.(DOT) : UN2024

Proper Shipping Name (DOT) : Mercury compounds, liquid, n.o.s.

Transport hazard class(es) (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 6.1 - Poison inhalation hazard

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Packing group (DOT) : II - Medium Danger

Dangerous for the environment : Yes

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Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 243

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Mercuric Chloride, 5% w/v	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Mercuric Chloride		CAS No 7487-94-7	5
Mercuric Chloride (7487-94-7)			
Listed on the United States SARA Section 302 Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	500 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb		
SARA Section 311/312 Hazard Classes	Immediate (acut	,	

15.2. International regulations

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Mercuric Chloride (7487-94-7)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious tox effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class E - Corrosive Material		
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

National regulations

Mercuric Chloride (7487-94-7)		
Listed on the Canadian IDL (Ingredient Disclosure List)		
	Water (7732-18-5)	
	Not listed on the Canadian IDL (Ingredient Disclosure List)	

15.3. US State regulations

Mercuric Chloride (7487-94-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1	
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2	
Carc. 2 Carcinogenicity Category 2		
Repr. 2	Reproductive toxicity Category 2	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
H300	Fatal if swallowed	
H310	Fatal in contact with skin	
H311	Toxic in contact with skin	
H351	Suspected of causing cancer	
H361	Suspected of damaging fertility or the unborn child	
H373	May cause damage to organs through prolonged or repeated	
	exposure	
H400	Very toxic to aquatic life	
H410 Very toxic to aquatic life with long lasting effects		
H411	Toxic to aquatic life with long lasting effects	

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NFPA health hazard : 3 - Short exposure could cause serious temporary or

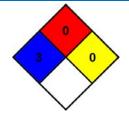
residual injury even though prompt medical attention was

given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

* - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : D

D - Face shield and eye protection, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

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