SDS 3170 Mercury

Date of Issue/re-issue: 04/03/2019 Expiry: 03/04/2024

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name **ECP Limited**

Address: 39 Woodside Ave, Northcote, Auckland , New Zealand

Emergency Tel: 0800 243 622 or .....0800 CHE M CA LL	**Tel** +64 9 480 4386	**FAX** +64 9 480 4385

Product	Mercury Oxide				**Code**	3170
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**	**Tracking?**	**Handlers Certificate?**
7439-97-6	HSR003014	2809	8 (6.1)	III	6.1B	6.1B

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification

Acute toxicity, Inhalation (Category A)

Respiratory sensitisation (Category A)

Toxic to Reproduction (Category A)

Specific Target Organ Toxicity, Inhalation (Category A)

Aquatic toxicity (Acute or Chronic) (Category A)

2.2 GHS Label elements, including precautionary statements

Pictogram  Signal word **Danger**

Hazard statement(s)

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

Response

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
Restricted to professional users.
2.3 Other hazards
None

3. Composition/information on ingredients
Substance/Mixture: Substance
3.1 Substances
Hazardous components

Component	Classification	Concentration
Mercury		
	6.1 B; 6.8 A; 6.9 A; 9.1 A; H330, H360, H372, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100%

4. First aid measures
4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
Mercury accumulates in almost all tissues, especially in the kidney, effects due to ingestion may include nausea, vomiting, diarrhoea, intestinal bleeding.
4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
No data available
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and storage
7.1 Precautions for safe handling
Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.
7.3 Specific end use(s)
No data available

8. Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits Table

Component	**CAS No**	**Value**	**Control parameters**	**Basis**
Mercury	7439-97-6	WES-TWA	0.025 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
	Remarks	Exposure can also be estimated by biological monitoring Skin absorption		

Biological occupation exposure limits

Component	CAS No.	Parameters	Value	Biological specimen	Basis
Mercury	7439-97-6	Mercury	0.025 micro mol per litre	Urine	New Zealand. Biological Exposure Indices
		Mercury	50.0000 µg/l	Urine	New Zealand. Biological Exposure Indices

8.2 Exposure controls
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties
9.1 Information on basic physical and chemical properties
a) Appearance
Form: liquid
Colour: silver, white
b) Odour
odourless
c) Odour Threshold
No data available
d) pH
No data available
e) Melting point/freezing point
Melting point/range: -38.87 °C - lit.
f) Initial boiling point and boiling range
356.6 °C - lit.
g) Flash point
Not applicable
h) Evaporation rate
No data available
i) Flammability (solid, gas)
No data available
j) Upper/lower flammability or explosive limits
No data available
k) Vapour pressure
< 0.01 hPa at 20 °C 1 hPa at 126 °C
l) Vapour density
6.93 - (Air = 1.0)
m) Relative density
13.55 g/cm3 at 25 °C
n) Water solubility
0.00006 g/l at 25 °C
o) Partition coefficient: n-octanol/water
No data available
p) Auto-ignition temperature
No data available
q) Decomposition temperature
No data available
r) Viscosity
No data available

10. Stability and reactivity
10.1 Reactivity
No data available

10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Strong oxidizing agents, ammonia, azides, nitrates, chlorates, copper.
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Mercury/mercury oxides.
Other decomposition products
No data available

11. Toxicological information
11.1 Information on toxicological effects
Acute toxicity
LC50 Inhalation - Rat - male - 2 h - < 27 mg/m^3
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
Presumed human reproductive toxicant
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard
No data available
Potential health effects
Inhalation
May be fatal if inhaled. May cause respiratory tract irritation.
Skin
Toxic if absorbed through skin. May cause skin irritation.
Eyes
May cause eye irritation.
Signs and Symptoms of Exposure
Mercury accumulates in almost all tissues, especially in the kidney. Effects due to ingestion may include nausea, vomiting, diarrhoea, intestinal bleeding.
Additional Information
RTECS: OV4550000

12. Ecological information

12.1 Toxicity

Toxicity to fish mortality

LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulation

Carassius auratus (goldfish) - 1,789 d -0.25 µg/l

Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	**IMDG International Maritime Dangerous Goods Code**	**IATA – DGR International Air Travel Association – Dangerous Goods Regulations**
14.1	**UN Number**	2809	2809	2809
14.2	**UN Proper Shipping name**	MERCURY	MERCURY	Mercury
14.3	**Transport Hazard Class**	8 (6.1)	8 (6.1)	8 (6.1)
14.4	**Packaging group**	III	III	III
14.5	**Environmental Hazards**	Yes	Yes	No
14.6	**Special precautions for user**	No data available		

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: 6.1B

Approved Handler Cert.: 6.1B

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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