1. Identification

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product Identity</th>
<th>Mercury (Metallic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate Names</td>
<td>Quicksilver; Hydrgyrum; Liquid Silver</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Intended use</th>
<th>See Technical Data Sheet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Method</td>
<td>See Technical Data Sheet.</td>
</tr>
</tbody>
</table>

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company Name</th>
<th>WM Mercury Waste Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21211 Durand Avenue</td>
</tr>
<tr>
<td></td>
<td>Union Grove, WI 53182</td>
</tr>
</tbody>
</table>

Emergency

<table>
<thead>
<tr>
<th>CHEMTREC (USA)</th>
<th>(800) 424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Service: WM Mercury Waste Inc.</td>
<td>(800) 741-3343</td>
</tr>
</tbody>
</table>

2. Hazard(s) identification

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Acute Tox. 2;H330</th>
<th>Fatal if inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repr. 1B;H360D</td>
<td>May damage the unborn child.</td>
</tr>
<tr>
<td>STOT RE 1;H372</td>
<td>Causes damage to organs through prolonged or repeated exposure. Specific Target Organs: (Central Nervous System)</td>
</tr>
<tr>
<td>Aquatic Chronic 1;H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Safety Data Sheet
Mercury (Metallic)

SDS Revision Date: 05/01/2015

[Prevention]:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist / vapors / spray.
P264 Wash 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+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P310 Immediately call a POISON CENTER or doctor / physician.
P314 Get Medical advice / attention if you feel unwell.
P320 Specific treatment is urgent (see information on this label).
P391 Collect spillage.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>100</td>
<td>Repr. 1B;H360D</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0007439-97-6</td>
<td></td>
<td>Acute tox. 2;H330</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT RE 1;H372</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1:H400</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 1:H410</td>
<td></td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.
4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
If swallowed, wash out mouth with water, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview
Eye: Contact with eyes may cause severe irritation, and possible eye burns. Vapors may cause eye irritation.
Skin: May cause skin irritation. May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, and personality changes.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause effects similar to those for inhalation exposure.
Inhalation: Causes respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. May cause severe respiratory tract irritation.
Chronic: Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, and personality changes.

Notes to Physician: Treat symptomatically and supportively.
Antidote: The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel. The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media
Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Mercury/mercury oxides.
Do not breathe mist / vapors / spray.
5.3. Advice for fire-fighters
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes.

5.4. Structure/physical data
Mercury (Metallic)

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section).

7. Handling and storage

7.1. Precautions for safe handling
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

7.2. Conditions for safe storage, including any incompatibilities
Handle containers carefully to prevent damage and spillage.
Incompatible materials: Acetylene, ammonia, boron phosphodiiodide, chlorine, chlorine dioxide, methyl azide, sodium carbide, halogens, strong oxidizers.
Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Poison room locked.

7.3. Specific end use(s)
No data available.
Safety Data Sheet  
Mercury (Metallic) 

SDS Revision Date: 05/01/2015 

8. Exposure controls and personal protection 

8.1. Control parameters  
Exposure 

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0007439-97-6</td>
<td>Mercury</td>
<td>OSHA</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>Alkyl compounds TWA: 0.01 mg/m³ STEL 0.03 mg/m³ Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aryl compounds TWA: 0.05 mg/m³ C 0.1 mg/m³ Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elemental/Inorganic 0.025mg/m³ Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

Carcinogen Data 

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0007439-97-6</td>
<td>Mercury</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;</td>
</tr>
</tbody>
</table>

8.2. Exposure controls 
Respiratory Follow the OSHA respirator regulations found in 29CFR §1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary. 

Eyes Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. 

Skin Wear appropriate protective clothing to prevent skin exposure. Wear appropriate gloves to prevent skin exposure. 

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. 

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. 

See section 2 for further details. - [Prevention]: 

9. Physical and chemical properties 

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Silver Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>-38.87 deg C</td>
</tr>
</tbody>
</table>
Safety Data Sheet
Mercury (Metallic)

SDS Revision Date: 05/01/2015

Initial boiling point and boiling range 356.5 deg C @ 760.00mmHg
Flash Point Not Measured
Evaporation rate (Ether = 1) Not Available
Flammability (solid, gas) Not Applicable
Upper/lower flammability or explosive limits

Vapor pressure (Pa) 0.002 mmHg @ 25C
Vapor Density 7 (Air=1)
Specific Gravity 13.5400g/cm3 (Water=1)
Solubility in Water Insoluble
Partition coefficient n-octanol/water (Log Kow) Not Measured
Auto-ignition temperature Not Measured
Decomposition temperature Not Available
Viscosity (cSt) 1.554 cP 20.00
Molecular Formula Hg
Molecular Weight 200.59

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
High temperatures, incompatible materials, metals.

10.5. Incompatible materials
Acetylene, ammonia, boron phosphodiiodide, chlorine, chlorine dioxide, methyl azide, sodium carbide, halogens, strong oxidizers.

10.6. Hazardous decomposition products
Mercury/mercury oxides.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
</table>

Page 6 of 9
Mercury - (7439-97-6) | 37.00, Rat - Category: 2 | No data available | No data available | No data available | No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

### Classification

<table>
<thead>
<tr>
<th>Hazard Description</th>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatal if swallowed.</td>
<td>2</td>
<td>Acute toxicity (oral)</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Acute toxicity (dermal)</td>
</tr>
<tr>
<td>Fatal if inhaled.</td>
<td>2</td>
<td>Acute toxicity (inhalation)</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Serious eye damage/irritation</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Skin sensitization</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>May damage the unborn child.</td>
<td>1B</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>STOT-single exposure</td>
</tr>
<tr>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
<td>1</td>
<td>STOT-repeated exposure</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Aspiration hazard</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury - (7439-97-6)</td>
<td>Not Available</td>
<td>0.0052, Daphnia magna</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**
No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>UN2809</td>
<td>UN2809</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>UN2809, Mercury, 8, III</td>
<td>Mercury</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: 8 (6.1)</td>
<td>IMDG: 8</td>
</tr>
<tr>
<td></td>
<td>Sub Class: 6.1</td>
<td>Sub Class: 6.1</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>IMDG</td>
<td>Air Class: 8</td>
</tr>
<tr>
<td>IMDG</td>
<td>Marine Pollutant: Yes (Mercury)</td>
<td></td>
</tr>
</tbody>
</table>

### 14.6. Special precautions for user

No further information

## 15. Regulatory information

### Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

### Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

### WHMIS Classification
D1A

### US EPA Tier II Hazards
- **Fire:** No
- **Sudden Release of Pressure:** No
- **Reactive:** No
- **Immediate (Acute):** Yes
- **Delayed (Chronic):** Yes

### EPCRA 311/312 Chemicals and RQs (lbs):
- **Mercury** (1.00)

### EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:
Mercury

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
Mercury

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
Mercury

Pennsylvania RTK Substances (>1%):
Mercury

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall WM Mercury Waste Inc. 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.

End of Document