SAFETY DATA SHEET

Preparation Date: 10/29/2014
Revision Date: 10/29/2014
Revision Number: G1

1. IDENTIFICATION

Product identifier
Product code: M1215
Product Name: MERCURY, TRIPLE DISTILLED, REAGENT, ACS

Other means of identification
Synonyms: Quack Silver
Liquid Silver
Metallic Mercury
Mercure (French)

CAS #: 7539-97-6
RTECS #: OV4550000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Amalgams (for dental preparations). In barometers, thermometers, hydrometers, pyrometers, in mercury arc lamps, in switches, in fluorescent lamps.
Uses advised against: No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 1</td>
</tr>
<tr>
<td>Corrosive to metals</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements
Danger

Hazard statements
Fatal if inhaled
May cause an allergic skin reaction
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure
May be corrosive to metals

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
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Keep only in original container

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment is urgent (see .? on this label)
Specific treatment (see .? on this label)
Absorb spillage to prevent material damage
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
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.

Hazard not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful if swallowed

Product code: M1215
Product name: MERCURY, TRIPLE DISTILLED, REAGENT, ACS
Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in corrosive resistant/...container with a resistant inner liner

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>7439-97-6</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice:
Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact:
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Rinse with plenty of water. Get medical attention.

Eye Contact:
Flush eye with water for 15 minutes. Get medical attention.

Inhalation:
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce 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. Call a physician immediately.

Ingestion:
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention. Call a physician or Poison Control Centre immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause eye/skin irritation. May affect eyes/vision. May cause allergic skin reaction. May cause abdominal pain, nausea, vomiting, diarrhea. May cause anorexia. Thirst. May cause salivation. May cause metallic taste. Central nervous system effects. May cause irritation of respiratory tract. May affect respiration. It may affect the kidneys. May affect the cardiovascular system.

Indication of any immediate medical attention and special treatment needed
Notes to Physician:
Treat symptomatically

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media
5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Hg vapor and oxides generated during fires involving Mercury

Specific hazards: When thrown into mercury vapor, boron phosphodiiodide ignites at once. Flame forms with chlorine jet over mercury surface at 200 deg to 300 deg C. Mercury undergoes hazardous reactions in the presence of heat and sparks or ignition. A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. If the amount of Mercury is more than what is in a thermometer consider the following: 1. stay out of the room until you begin clean up, 2. lower the room temperature, if possible, to reduce the evaporation of Mercury, 3. shut down or close vents that could spread the Mercury vapor back indoors or into other areas. 4. Open exterior windows to ventilate any mercury vapors to the outdoors. If possible, place a fan in a window to blow the vapors out, but avoid breezes that might blow the Mercury vapor back indoors or into other nearby residences. You can run a bathroom exhaust fan or cooking stove hood, but only if it vents outdoors and only if it is located in the same room as the Mercury spill.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Product code: M1215 Product name: MERCURY, TRIPLE DISTILLED, REAGENT, ACS
**Methods for containment**

Stop leak if you can do it without risk. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). For larger spills, dike area and pump into waste containers.

**Methods for cleaning up**

For small spills, use a commercially available Mercury Spill Kit. A suction pump with aspirator can also be used during clean-up operations for a small spill. Calcium polysulfide or excess sulfur can also be used for clean-up. Mercury can migrate into cracks and other difficult-to-clean areas; calcium polysulfide and sulfur can be sprinkled effectively into these areas. Mercury spill areas may be subsequently treated with calcium sulphide/calcium sulfide or with sodium thiosulphate/sodium thiosulfate wash to neutralize any residual mercury. Clean and decontaminate the area thoroughly. Ensure that all traces of mercury have been removed. Thoroughly clean and decontaminate all equipment used in response. If such equipment cannot be adequately decontaminated, it must be discarded with other spill residue. Place all spill residues in an appropriate container, seal immediately, and label appropriately. Never use a vacuum cleaner, mop or broom to clean up a Mercury spill.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**
Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

**Safe Handling Advice:**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. May corrode metallic surfaces. Do not store in uncoated metallic containers. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**
Oxidizing agents. Metals.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

<table>
<thead>
<tr>
<th>United States</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tbody>
<tr>
<td>Components</td>
<td>Ceiling</td>
<td>TWA</td>
<td>Ceiling</td>
<td>TWA</td>
</tr>
<tr>
<td>Mercury - 7439-97-6</td>
<td>0.1 mg/m³</td>
<td>0.05 mg/m³</td>
<td>0.025 mg/m³</td>
<td>None</td>
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</table>

<table>
<thead>
<tr>
<th>Canada</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
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<tbody>
<tr>
<td>Components</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury - 7439-97-6</td>
<td>0.025 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.025 mg/m³</td>
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</table>

<table>
<thead>
<tr>
<th>Australia and Mexico</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury 7439-97-6</td>
<td>0.003 ppm TWA</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

**Product code:** M1215  
**Product name:** MERCURY, TRIPLE DISTILLED, REAGENT, ACS
Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Face-shield.

Skin and body protection: Chemical resistant protective suit. Gloves, boots.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Odor</td>
<td>Odorless</td>
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<td>Molecular/Formula weight</td>
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<td>Appearance</td>
<td>heavy, mobile, liquid metal.</td>
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<tr>
<td>Taste</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>Silver-white.</td>
</tr>
<tr>
<td>Flash point (°C):</td>
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<tr>
<td>Lower Explosion Limit (%):</td>
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<tr>
<td>Upper Explosion Limit (%):</td>
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<tr>
<td>Flash Point Tested according to:</td>
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<td>Autoignition Temperature (°C/°F):</td>
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<td>Boiling point/range(°C/°F):</td>
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<tr>
<td>Density (g/cm3):</td>
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</tr>
<tr>
<td>Bulk density</td>
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<tr>
<td>Evaporation rate:</td>
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<tr>
<td>Vapor density</td>
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<tr>
<td>Odor threshold (ppm):</td>
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<tr>
<td>Partition coefficient (n-octanol/water):</td>
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</tr>
<tr>
<td>Miscibility</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

Product code: M1215  Product name: MERCURY, TRIPLE DISTILLED, REAGENT, ACS
10. STABILITY AND REACTIVITY

Ground mixtures of sodium carbide and mercury, aluminum, lead, or iron can react vigorously.
A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium.
Incompatible with boron diiodophosphide; ethylene oxide; metal oxides, metals(aluminum, potassium, lithium, sodium, rubidium); methyl azide; methylsilane, oxygen; oxidants(bromine, peroxyformic acid, chlorine dioxide, nitric acid, tetracarbonylnickel, nitromethane, silver perchlorate, chlorates, sulfuric acid, nitrates,); tetracarbonylnickel, oxygen, acetylinic compounds, ammonia, ethylene oxide, methylsilane, calcium.
When thrown into mercury vapor, boron phosphodiiodide ignites at once.
Flame forms with chlorine jet over mercury surface at 200 deg to 300 deg C.
Mercury undergoes hazardous reactions in the presence of heat and sparks or ignition.
A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium.

CHLORINE DIOXIDE & LIQUID HG, WHEN MIXED, EXPLODE VIOLENTLY.
Mercury and Ammonia can produce an explosive compound.
A mixture of the dry carbonyl and oxygen will explode on vigorous shaking with mercury.
Methyl azide in the presence of mercury was shown to be potentially explosive
Reactive with oxidizing agents
Reactive with metals

Chemical stability
Stability: Stable.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Conditions to avoid: Incompatible materials.
Hazardous decomposition products: Mercury/mercury oxides.

Other Information
Corrosivity: Mercury can attack copper and copper alloy materials
Special Remarks on Corrosivity: The high mobility and tendency to dispersion exhibited by mercury, and the ease with which it forms alloys (amalga) with many laboratory and electrical contact metals can cause severe corrosion problems in laboratories.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Inhalation. Skin. Ingestion.

Acute Toxicity

Component Information

Mercury - 7439-97-6
LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Product Information

**LD50/oral/rat** =
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**
**VALUE-Vapor** = No information available
**VALUE-Gas** = No information available
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**
**VALUE-Vapor** = No information available
**VALUE - Gas** = No information available
**VALUE - Dust/Mist** = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation. May cause allergic skin reaction. It may be absorbed through the skin. It is only slowly absorbed through the skin and is not an important route of exposure.

**Eye Contact:** Contact with eyes may cause irritation. Exposure to Mercury vapor can cause the lens and cornea of the eye to discolor (a rose-brown or pinkish discoloration), keratitis and conjunctivitis.

**Inhalation** Fatal if inhaled. May cause irritation of respiratory tract. Inhalation of high concentrations of vapor can cause respiratory tract irritation, chest pain, dypnea, cough, hemoptysis (coughing up of sputum), erosive bronchitis and bronchiolitis, interstitial pneumonitis, Acute Respiratory Distress Syndrome (ARDS), pulmonary edema, lung lesions, and death from respiratory insufficiency. Mercury vapor can be absorbed by the respiratory tract. Acute mercury intoxication is rare, but can occur after inhalation of large amounts. Vapor inhalation is the is the most likely route of exposure. Symptoms of mercury intoxication may include malaise, sweating, chills, anorexia, gastrointestinal symptoms (dry mouth, nausea, vomiting, diarrhea, abdominal pain hypermotility, stomatitis, salivation, metallic taste), gingivitis, losening of teeth. It may affect behavior/central nervous system/peripheral nervous system (depression, anxiety, decreased strength, muscle aches/weakness, lethargy, fatigue, headache, insomnia, dizziness, clumsiness or muscle incoordination, short-term memory loss, slurred speech, tremor, irritability, emotional instability, apathy, hallucinations, mania, xenophobia, sensitivity, impaired concentration, convulsions), liver, cardiovascular system (hypertension, tachycardia), kidneys (kidney damage, renal impairment), and blood(increased white blood cell count, thrombocytopenia, anemia). Acute Mercury poisoning can resemble Pheochromocytoma with sweating, irritability, insomnia, lethargy, tachycardia, hypertension and skin rash.
Ingestion

May be harmful if swallowed. Almost no elemental Mercury is absorbed through the gastrointestinal tract. Metallic Mercury is not usually absorbed in sufficient amounts from the gastrointestinal tract to induce acute, toxic response and oral exposures are not normally associated with GI symptoms. However, if Mercury is swallowed in very large amounts and a large amount is absorbed, symptoms of over-exposure may include metallic taste in mouth, thirst, salivation, abdominal discomfort, nausea, vomiting, central nervous system effects, kidney damage and other symptoms similar to that of inhalation. It may also affect the liver. Damage to the tissues of the mouth throat, esophagus and other tissues of the digestive system may occur.

Aspiration hazard

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Prolonged or repeated skin contact may cause sensitization and dermatitis (allergic skin reaction), it may be absorbed through the skin and affect behavior/central nervous system (headache and other central nervous system effects), and hearing (tinnitus)

Prolonged or repeated exposure may cause hypersalivation, strong metallic taste, inflammation of the mouth and gums and loosening of teeth, accumulation of mercury in the body tissues, central nervous system effects (particularly muscle tremors in the fingers, eye lids, and lips, which may progress to chronic spasms of the extremities), permanent central nervous system damage and peripheral neuropathy, liver and kidney damage (protenuria, nephritic syndrome), acrodynia (a dusky pink discoloration of the hand and feet, usually seen in children), impairment of vision, photophobia, impairment of hearing, and other symptoms mentioned under acute exposure. It may also affect the brain.

Prolonged or repeated eye exposure to mercury vapors may result in Mercurialentis, a pinkish or brownish discoloration of the lens and cornea, and keratitis

Sensitization:

May cause sensitization by skin contact

Mutagenic Effects:

No information available

Carcinogenic effects:

Not classifiable as to its carcinogenicity to humans. Not classifiable as a human carcinogen.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
<td>Group 3 - Monograph 58 [1993]</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

Reproductive toxicity

No data is available

Reproductive Effects:

No information available

Developmental Effects:

May cause developmental effects based on animal data

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available
STOT - repeated exposure: No information available
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: May cause long-term adverse effects in the aquatic environment.

Mercury - 7439-97-6
Freshwater Fish Species Data: 0.16 mg/L LC50 Cyprinus carpio 96 h semi-static 1
0.18 mg/L LC50 Cyprinus carpio 96 h static 1
0.5 mg/L LC50 Cyprinus carpio 96 h 1
0.9 mg/L LC50 Oryzias latipes 96 h flow-through 1

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>U151</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN2809
Proper Shipping Name: Mercury
Hazard Class: 8
Subsidiary Risk: 6.1
Packing Group: III
Marine Pollutant: No data available
ERG No: 172
DOT RQ (lbs): No information available
Symbol(s): A, W, R1

TDG (Canada)
UN-No: UN2809
Proper Shipping Name: Mercury
Hazard Class: 8
Subsidiary Risk: 6.1
Packing Group: III
Description: No information available

Product code: M1215  Product name: MERCURY, TRIPLE DISTILLED, REAGENT, ACS
### 14. TRANSPORT INFORMATION

**ADR**
- UN-No: UN2809
- Proper Shipping Name: Mercury
- Hazard Class: 8
- Packing Group: III
- Subsidiary Risk: 6.1
- Classification Code: No information available
- Description: No information available
- CEFIC Tremcard No: No information available

**IMO / IMDG**
- UN-No: UN2809
- Proper Shipping Name: Mercury
- Hazard Class: 8
- Subsidiary Risk: No information available
- Packing Group: III
- Description: No information available
- IMDG Page: No information available
- Marine Pollutant: No information available
- EMS: F-A
- MFAG: No information available
- Maximum Quantity: No information available

**RID**
- UN-No: UN2809
- Proper Shipping Name: Mercury
- Hazard Class: 8
- Subsidiary Risk: 8 + 6.1
- Packing Group: III
- Classification Code: No information available
- Description: No information available

**ICAO**
- UN-No: UN2809
- Proper Shipping Name: Mercury
- Hazard Class: 8
- Subsidiary Risk: 6.1
- Packing Group: III
- Description: No information available

**IATA**
- UN-No: UN2809
- Proper Shipping Name: Mercury
- Hazard Class: 8
- Subsidiary Risk: No information available
- Packing Group: III
- ERG Code: 8P
- Description: No information available

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Mercury</td>
<td>Present S</td>
<td>Present KE-23117</td>
<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-106-7</td>
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</table>

**Product code:** M1215  
**Product name:** MERCURY, TRIPLE DISTILLED, REAGENT, ACS
U.S. Regulations

**Mercury**
- **Massachusetts RTK**: Present
- **New Jersey RTK Hazardous Substance List**: Present
- **New Jersey (EHS) List**: Present
- **New Jersey - Discharge Prevention - List of Hazardous Substances**: Present
- **Pennsylvania RTK**: Environmental hazard
- **Pennsylvania RTK - Environmental Hazard List**: Present
- **RI RTK - Hazardous Substances List**: Present
- **Michigan - Critical Materials List**: Present
- **Minnesota - Hazardous Substance List**: Present
- **New York Release Reporting - List of Hazardous Substances**: 1 lb RQ
- **Louisiana Reportable Quantity List for Pollutants**: 1 lb final RQ
- **0.454 kg final RQ
- **California Directors List of Hazardous Substances**: Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
**WARNING**: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>Not Listed</td>
<td>development toxicity</td>
<td>Not Listed</td>
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</tbody>
</table>

**CERCLA/SARA**

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>1 lb final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1.0 % Supplier notification limit</td>
</tr>
<tr>
<td></td>
<td>0.454 kg final RQ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>[721.10880]</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Canada**

**WHMIS hazard class:**
Non-controlled

**Mercury**
- **D1A**
- **D2A**
- **E**

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>0.1 %</td>
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</table>

**Product code:** M1215  **Product name:** MERCURY, TRIPLE DISTILLED, REAGENT, ACS
Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>Present</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

**R-phrase(s)**
- R26 - Very toxic by inhalation.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R61 - May cause harm to the unborn child.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.

**S-phrase(s)**
- S53 - Avoid exposure - obtain special instructions before use.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>T+; R26</td>
<td>No information</td>
<td>S53  S45  S60  S61</td>
</tr>
<tr>
<td></td>
<td>T; R48/23</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N; R50-53</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repr.Cat.2; R61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
- T+ - Very toxic.
- T - Toxic
- N - Dangerous for the environment.

16. OTHER INFORMATION

**Product code:** M1215  **Product name:** MERCURY, TRIPLE DISTILLED, REAGENT, ACS
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>![Diagram of HMIS Symbols]</td>
</tr>
</tbody>
</table>

Preparation Date: 10/29/2014  
Revision Date: 10/29/2014  
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet