SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product code: M1180
Product Name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS

Other means of identification

Synonyms: Mercury monoxide; Mercury (II) oxide; Mercury (2+) oxide
CAS #: 21908-53-2
RTECS #: OW8750000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: For manufacturing or laboratory use only. Chemical intermediate.
Uses advised against: No information available

Supplier:

Spectrum Chemical Mfg. Corp
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 according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</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 2</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Fatal if swallowed
Fatal if inhaled
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not eat, drink or smoke when using this product
Wear respiratory protection
Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Rinse mouth.

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
</table>

Product code: M1180  
Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. 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. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or Poison Control Centre immediately. Fatal in contact with skin.

Eye Contact: Flush eyes with water for 15 minutes. Call a physician or Poison Control Centre immediately. Call a physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately. Fatal if swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms Fatal if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Mercury poisoning also causes sore gums, stomatitis, foul breath, loss of teeth, metallic taste in mouth, increased salivation, personality changes, tremors, fatigue, insomnias, dizziness, headache, muscle weakness, muscle or joint pain, memory loss, peripheral neuropathy. May affect the kidneys (renal failure), liver, blood, and brain.

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

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

Product code: M1180
Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
Hazardous Combustion Products: If it is involved in a fire the following can be released: Mercury oxides.

Specific hazards: No information available.

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. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. 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 dust. Avoid dust formation. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials: Strong oxidizing agents Chlorine Hydrogen peroxide Metals

Product code: M1180 Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
Reducing agents
Powdered metals
Phenols
Strong acids
Hydrazine hydrate
Hydrogen trisulfide
Acetyl nitrate
Ethanol
Combustible materials
Alcohols
Phosphine
Acetylene
Sulfur
Organic materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<td>21908-53-2</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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Canada

<table>
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<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<tr>
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<td>21908-53-2</td>
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Australia and Mexico

<table>
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<th>Components</th>
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<th>Mexico</th>
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<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles
Skin and body protection: Gloves. Chemical resistant apron. Long sleeved clothing.
Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of

Product code: M1180
Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Powder</td>
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<tr>
<td>Color:</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor:</td>
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</tr>
<tr>
<td>Taste</td>
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<tr>
<td>Formula:</td>
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<td>Upper Explosion Limit (%):</td>
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<td>Melting point/range(°C/°F):</td>
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<td>Boiling point/range(°C/°F):</td>
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<td>Density (g/cm³):</td>
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<td>Specific gravity:</td>
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<tr>
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<td>Flashpoint (°C/°F):</td>
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<tr>
<td>Flash Point Tested according to:</td>
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<tr>
<td>Lower Explosion Limit (%):</td>
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</tr>
<tr>
<td>Autoignition Temperature (°C/°F):</td>
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<tr>
<td>Upper Explosion Limit (%):</td>
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</tr>
<tr>
<td>Melting point/range(°C/°F):</td>
<td>500°C (932°F)</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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<tr>
<td>Bulk density:</td>
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<td>Density (g/cm³):</td>
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<tr>
<td>pH:</td>
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<tr>
<td>No information available</td>
<td></td>
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<td>Odor threshold (ppm):</td>
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<tr>
<td>Partition coefficient (n-octanol/water):</td>
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<tr>
<td>Solubility:</td>
<td>Very slightly soluble in cold water</td>
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<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Insoluble in Ether</td>
<td></td>
</tr>
<tr>
<td>Insoluble in Alcohol</td>
<td></td>
</tr>
<tr>
<td>Insoluble in Acetone</td>
<td></td>
</tr>
<tr>
<td>Miscibility:</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Very slightly soluble in cold water</td>
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<tr>
<td>No information available</td>
<td></td>
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<td>Insoluble in Ether</td>
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<tr>
<td>Insoluble in Alcohol</td>
<td></td>
</tr>
<tr>
<td>Insoluble in Acetone</td>
<td></td>
</tr>
</tbody>
</table>

## 10. STABILITY AND REACTIVITY

**Reactivity:**
Reactive with strong oxidizing agents

**Chemical stability**

**Stability:**
Sensitive to light. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:**
Hazardous polymerization does not occur

**Conditions to avoid:**

**Incompatible Materials:**
Strong oxidizing agents
Chlorine
Hydrogen peroxide
Metals
Reducing agents
Powdered metals
Phenols
Strong acids
Hydrazine hydrate
Hydrogen trisulfide
Acetyl nitrate
Ethanol
Combustible materials
Alcohols
Phosphine
Acetylene
Sulfur
Organic materials

**Hazardous decomposition products:**
Mercury/mercury oxides.

**Other Information**
Corrosivity: No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

Principal Routes of Exposure:
Skin. Eyes. Ingestion. Inhalation.

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LC50/inhalation/rat</th>
<th>Other LD50 or LC50 information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>= 18 mg/kg Oral LD50 Rat</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Product Information**

<table>
<thead>
<tr>
<th>LD50/oral/rat</th>
<th>VALUE- Acute Tox Oral</th>
<th>LD50/oral/mouse</th>
<th>Value - Acute Tox Oral</th>
<th>LD50/dermal/rabbit</th>
<th>VALUE-Acute Tox Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>= 18 mg/kg</td>
<td>18 mg/kg</td>
<td>= 18 mg/kg Oral LD50 Rat</td>
<td>16 mg/kg</td>
<td>= 315 mg/kg</td>
<td>315 mg/kg</td>
</tr>
</tbody>
</table>

**Product code:** M1180  **Product name:** MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
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: Fatal if absorbed through skin. Causes skin irritation. May cause allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Inhalation Fatal if inhaled. May cause irritation of respiratory tract. May cause metallic taste. May cause nausea, vomiting. May cause abdominal pain.

Ingestion Fatal if swallowed. High or repeated exposure can cause Mercury poisoning. Mercury poisoning causes sore gums, personality changes, tremor/"shakes" (often with shaky handwriting), clumsiness, fatigue, irritability and increased saliva. Other changes may include serious personality changes memory loss, extreme shyness, weakness, stomatitis, gingivitis, loss of teeth, gastrointestinal disturbances, metallic taste, poor appetite/anorexia, this, abdominal discomfort, nausea, vomiting, weight loss, central nervous system effects, "pins and needles" (peripheral neuropathy). Exposures can also affect the liver, cause kidney damage, and may cause decreased visual acuity, and affect peripheral vision (the ability to see to the side). Brain damage can occur, especially if exposure continues. There may be similar effects in cases of acute inhalation.

Aspiration hazard No information available.

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

Chronic Toxicity Skin: Prolonged or repeated skin contact may cause allergic skin reaction. Prolonged or repeated inhalation may affect the kidneys. Chronic exposure may cause central nervous system effects. Prolonged or repeated exposure may affect the eyes and vision. Inhalation/Ingestion: High or repeated exposure can cause Mercury poisoning. Mercury poisoning causes gastrointestinal upset/disturbances, inflammation of the mouth and gums, sore gums, metallic taste in the mouth, personality changes, tremors/shakes, clumsiness, fatigue, headache, dizziness or faintness, insomnia, irritability and increased saliva. Other changes may include memory loss, trouble concentrating, extreme shyness, joint or muscle pain, muscle weakness, stomatitis, gingivitis, loose teeth or loss of teeth, loss of appetite and weight. Exposure can also affect the liver, cause kidney damage, and may decrease visual activity. Brain damage can occur if exposure continues. Eye contact: brown staining in the eye without visual impairmentSkin: Repeated skin contact can make the skin gray. Dermatitis can also occur.

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects: No information available

Product code: M1180 Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
**Carcinogenic effects:** Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>Group 3 - Monograph 58 [1993] Mercury and Mercury compounds</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tbody>
</table>

**ACGIH (American Conference of Governmental Industrial Hygienists)**  
A4 - Not Classifiable as a Human Carcinogen

**IARC (International Agency for Research on Cancer)**  
Group 3 - Not classifiable as to its carcinogenicity to humans

**NTP (National Toxicology Program)**  

**Reproductive toxicity**  
May damage fertility or the unborn child

**Reproductive Effects:**  
Experiments have shown reproductive toxicity effects on laboratory animals  
May impair fertility

**Developmental Effects:**  
May cause harm to the unborn child

**Teratogenic Effects:**  
No information available

**Specific Target Organ Toxicity**

**STOT - single exposure**  
No information available.

**STOT - repeated exposure**  
Causes damage to organs through prolonged or repeated exposure.

**Target Organs:**  

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity effects:**  
No data available.

**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>
<th></th>
<th></th>
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</tbody>
</table>

**Product code:** M1180  
**Product name:** MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
14. TRANSPORT INFORMATION

**DOT**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Subsidiary Class:** No information available
- **Packing group:** II
- **Emergency Response Guide Number:** 151

**TDG (Canada)**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Packing Group:** II
- **Marine Pollutant:** No information available

**ADR**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Packing Group:** II
- **Subsidiary Risk:** No information available

**IMO / IMDG**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Packing Group:** II
- **Subsidiary Risk:** No information available

**RID**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Packing Group:** II

**ICAO**
- **UN-No:** UN1641
- **Proper Shipping Name:** Mercury oxide
- **Hazard Class:** 6.1
- **Packing Group:** II

**Product code:** M1180  
**Product name:** MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS
15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
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<td>Present KE-23130</td>
<td>Present (1)-436</td>
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<td>Present</td>
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U.S. Regulations

Mercuric Oxide Yellow

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 2537
New Jersey (EHS) List: 2537 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
New York Release Reporting - List of Hazardous Substances: = 1 lb RQ


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)

| Components         | CAS-No. | Carcinogen | Developmental Toxicity Male Reproductive Toxicity Female Reproductive Toxicity: |
|--------------------|---------|------------|-------------------------------------------------|---------------------------------|
| Mercuric Oxide Yellow | 21908-53-2 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

<table>
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<th>Components</th>
<th>CAS-No.</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>
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<tr>
<td>Mercuric Oxide Yellow</td>
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<td>None, 500 lb lower TPQ 10000 lb upper TPQ 500</td>
<td>None</td>
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U.S. TSCA

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<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code: M1180</td>
<td>Product name: MERCURIC OXIDE, YELLOW, POWDER, REAGENT, ACS</td>
<td>11 / 13</td>
<td></td>
</tr>
</tbody>
</table>
### Canada

**WHMIS hazard class:**
- D1A  Very toxic materials
- D2A  Very toxic materials

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>WHIMHAZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>D1A</td>
</tr>
</tbody>
</table>

**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.

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>0.1 %</td>
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### Inventory

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
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</table>

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

**R-phrase(s)**
- R33 - Danger of cumulative effects.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

**S-phrase(s)**
- S13 - Keep away from food, drink and animal feedingstuffs.
- S28 - After contact with skin, wash immediately with plenty of water.
- 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.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Oxide Yellow</td>
<td>21908-53-2</td>
<td>No information</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.
- N - Dangerous for the environment.

![T+ N](image-url)
16. OTHER INFORMATION

Preparation Date: 11/14/2016
Revision Date: 11/14/2016
Prepared by: Roumann Pangilinan

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 Safety Data Sheet