# MATERIAL SAFETY DATA SHEET

**ENTERED OCT 1 0 1986**

## SECTION I

<table>
<thead>
<tr>
<th>CHEMICAL NAME AND SYNONYMS</th>
<th>TRADE NAME AND SYNONYMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>Quicksilver</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHEMICAL FAMILY</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>Hg</td>
</tr>
</tbody>
</table>

## SECTION II—HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>PAINTS, PRESERVATIVES, &amp; SOLVENTS</th>
<th>%</th>
<th>TLV (Units)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>%</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIGMENTS</td>
<td></td>
<td></td>
<td>BASE METAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATALYST</td>
<td></td>
<td></td>
<td>ALLOYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VEHICLE</td>
<td></td>
<td></td>
<td>METALLIC COATINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLVENTS</td>
<td></td>
<td></td>
<td>FILLER METAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PLUS COATING OR CORE FLUX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDITIVES</td>
<td></td>
<td></td>
<td>OTHERS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td></td>
<td></td>
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</tbody>
</table>

**HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES**

Single Compound—Does not apply

## SECTION III—PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT (°F) °C</th>
<th>356-357</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY (H₂O = 1)</td>
<td>13.546</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg) (25°C)</td>
<td>2x10⁻³</td>
</tr>
<tr>
<td>PERCENT, VOLATILE BY VOLUME (%) @ 360°C</td>
<td>100</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>very slow</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (Moles/liter)</td>
<td>0.28</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>Silvery Liquid, odorless</td>
</tr>
</tbody>
</table>

## SECTION IV—FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>FLASH POINT (Method used)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABLE LIMITS</td>
<td>LEL</td>
</tr>
</tbody>
</table>

**EXTINGUISHING MEDIA**

Suitable to extinguish the supporting fire

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Heat from a fire can vaporize mercury and generate a toxic mercury concentration in air.
SECTION V—HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
TWA 50 Mg/m³; STEL 150 Mg/m³

EFFECTS OF OVEREXPOSURE
Inflammation of mouth and gums, excessive salivation, loosening of teeth,
kidney damage, muscle tremors, personality changes.

EMERGENCY AND FIRST AID PROCEDURES
Inhalation: remove to fresh air. Get medical attention. Eyes, skin: Wash
immediately and thoroughly with water and/or soap. Ingestion: Induce vomiting
and consult a physician.

SECTION VI—REACTIVITY DATA

STABILITY
UNSTABLE
STABLE

CONDITIONS TO AVOID

X

INCOMPATIBILITY (Materials to avoid)
Most metals (forms Amalgams); acids forms soluble mercury salts (severe poisons).

HAZARDOUS DECOMPOSITION PRODUCTS
Toxic mercury vapor when heated

HAZARDOUS POLYMERIZATION
MAY OCCUR
WILL NOT OCCUR

CONDITIONS TO AVOID

X

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Ventilate the area well, sweep up promptly using a special vacuum cleaner designed
for this purpose or use sulfur-bearing sweeping compound. Store in a tightly
closed container.

WASTE DISPOSAL METHOD
In accordance with current local, state and federal regulations dispose of in
a hazardous waste disposal facility. For larger quantities, return to a mercury
refiner or smelter.

SECTION VIII—SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
NIOSH approved for mercury dusts and fumes

VENTILATION
LOCAL EXHAUST
To provide air change every 3–5 minutes.
MECHANICAL (General)

PROTECTIVE GLOVES
Rubber

EYE PROTECTION
Chemical splash goggles

OTHER PROTECTIVE EQUIPMENT

SECTION IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Avoid skin contact, do not breathe vapors.

Spilled mercury can remain in small floor cracks, under benches etc. to provide
a vapor source.

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