

Issue Date: 29/03/2002  
Last Revision Date: 25/11/2020  
Superseded Date: 12/09/2012  
Version Number: 05

## SAFETY DATA SHEET

Product Code: 40-401-0

PAGE 1 OF 4

### SECTION 1 PRODUCT IDENTIFICATION

**Product Name** MERCURY (METAL)  
**Formula** HG  
**Formula WT** 200.59  
**CAS NO.** 07439-97-6  
**NIOSH/RTECS NO.** OV4550000  
**Common Synonyms** QUICKSILVER; LIQUID SILVER  
**Product Codes** 2569,2567,2564,2572  
**Effective** 03/28/2011

#### Precautionary Labelling

**Health** 3 EXTREME (POISON)  
**Flammability** 0 NONE  
**Reactivity** 0 SLIGHT  
**Contact** 3 SEVERE (LIFE)

**HAZARD RATINGS ARE 0 TO 4 (0 = NO HAZARD; 4 = EXTREME HAZARD).**

**Laboratory Protective Equipment** GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

**Precautionary Label Statements** THERMOMETER CONTAINS MERCURY. HAZARDOUS ONLY IF BROKEN

#### Poison Danger

EXCEPTIONAL CONTACT HAZARD - READ MATERIAL SAFETY DATA SHEET  
MAY BE FATAL IF SWALLOWED OR INHALED  
EMITS TOXIC VAPORS, ESPECIALLY WHEN HEATED.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
DO NOT BREATHE DUST. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE VENTILATION.  
WASH THOROUGHLY AFTER HANDLING

### SECTION 2 HAZARD IDENTIFICATION

COMPONENT	CAS NO.
MERCURY (METAL)	7439-97-6

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Boiling Point** 357°C (675°F)  
**Mel Ting Point** -39°C (-38°F)  
**Vapor Pressure (MM HG):** .002mm Hg @ 25°C

Issue Date: 29/03/2002  
Last Revision Date: 25/11/2020  
Superseded Date: 12/09/2012  
Version Number: 05

## SAFETY DATA SHEET

Product Code: 40-401-0

PAGE 2 OF 4

**Vapour Density (AIR=1)** 1.01  
**Specific Gravity** 13.53 (H2O=1)  
**Evaporation Rate** 4 (BUTYL ACETATE=1)  
**Solubility (H2O)** NEGLIGIBLE (LESS THAN 0.1 %) % VOLATILES BY VOLUME: 100  
**Appearance & Odour** SILVER-WHITE, HEAVY, MOBILE LIQUID METAL.

### SECTION 4 FIRST AID MEASURES

#### TLV Listed Denotes (TLV-SKIN)

**Threshold Limit Value (TLV/TWA)** 0.025 MG/M3 TWA (ACGIH)  
0.050 MG/M3 TWA (NIOSH)

**Permissible Exposure Limit (PEL)** 0.05 MG/M3 (PPM)

**Carcinogenicity** NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

**Effects of Overexposure** INHALATION OF VAPOURS MAY CAUSE COUGHING, CHEST PAINS, NAUSEA AND VOMITING. CHRONIC EFFECTS OF OVEREXPOSURE MAY INCLUDE KIDNEY AND/OR LIVER DAMAGE. CHRONIC EFFECTS OF OVEREXPOSURE MAY INCLUDE CENTRAL NERVOUS SYSTEM DEPRESSION. CHRONIC EFFECTS OF MERCURY POISONING INCLUDE A BUILDUP OF THE METAL IN THE BRAIN, LIVER 12/09/2012 AND KIDNEYS. SYMPTOMS INCLUDE HEADACHE, TREMORS, LOOSE TEETH, LOSS OF APPETITE, BLISTERS ON THE SKIN AND IMPAIRED MEMORY.

**Target Organs** EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, KIDNEYS

**Medical Conditions Generally Aggravated by Exposure** NONE IDENTIFIED

**Routes of Entry** INHALATION, ABSORPTION, EYE CONTACT, SKIN CONTACT  
EMERGENCY AND FIRST AID PROCEDURES  
CALL A PHYSICIAN.

IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE RE-USE. PEL LISTED DENOTES CEILING LIMIT.

### SECTION 5 FIRE FIGHTING MEASURES

**Flash Point (Closed Cup)** N/A

**Flammable Limits** UPPER - N/A % LOWER - N/A %

**Fire Extinguishing Media** USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE

**Special Fire-Fighting Procedures** FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Issue Date: 29/03/2002  
Last Revision Date: 25/11/2020  
Superseded Date: 12/09/2012  
Version Number: 05

## SAFETY DATA SHEET

Product Code: 40-401-0

PAGE 3 OF 4

### SECTION 6 ACCIDENTAL RELEASE MEASURES

No information available

### SECTION 7 HANDLING AND STORAGE

**Special Precautions** KEEP CONTAINER TIGHTLY CLOSED. STORE IN SECURE POISON AREA.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation** USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS

**Respiratory Protection** NONE REQUIRED WHERE APPROPRIATE VENTILATION CONDITIONS EXIST. IF THE TLV IS EXCEEDED, A SELFCONTAINED BREATHING APPARATUS IS ADVISED.

**Eye/Skin Protection** SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, RUBBER GLOVES ARE RECOMMENDED

### SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

No information available

### SECTION 10 STABILITY AND REACTIVITY

**Stability** STABLE

**Conditions To Avoid** HEAT

**Incompatibles** STRONG ACIDS

**Hazardous Polymerization** WILL NOT OCCUR

### SECTION 11 TOXICOLOGICAL INFORMATION

No information available

### SECTION 12 ECOLOGICAL INFORMATION

No information available

### SECTION 13 DISPOSAL CONSIDERATIONS

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. CLEAN UP SPILL IMMEDIATELY. COLLECT AND STORE USING A SUCTION PUMP WITH A CAPILLARY TUBE. CALCIUM POL YSULFIDE WITH EXCESS SULFUR SHOULD BE SPRINKLED INTO CRACKS OR INACCESSIBLE SITES. KEEP COLLECTED MERCURY IN A TIGHTLY CLOSED BOTTLE FOR RECOVERY OR DISPOSAL

J. T. BAKER CINNASORB(R) AND RESISORB(R) ARE RECOMMENDED FOR SPILLS OF THIS PRODUCT

Issue Date: 29/03/2002  
Last Revision Date: 25/11/2020  
Superseded Date: 12/09/2012  
Version Number: 05

## SAFETY DATA SHEET

Product Code: 40-401-0

PAGE 4 OF 4

**Disposal Procedure** DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS  
**EPA Hazardous Waste Number** U151 (TOXIC WASTE)

### SECTION 14 TRANSPORT INFORMATION

#### Domestic (D.O.T.)

**Proper Shipping Name** MERCURY, CONTAINED IN MANUFACTURED ARTICLES  
**Hazard Class** 8 **ERG** 172  
**UN/NA** UN2809  
**LABELS** CORROSIVE  
**Reportable Quantity** 1 LBS.

#### International (I.M.O.)

**Proper Shipping Name** MERCURY, CONTAINED IN MANUFACTURED ARTICLES  
**Hazard Class** 8  
**UN/NA** UN2809  
**LABELS** CORROSIVE **ERG** 172

### SECTION 15 REGULATORY INFORMATION

No information available

### SECTION 16 OTHER INFORMATION

No information available

## END OF SDS