
SECTION 1 — CHEMICAL PRODUCT AND PRODUCER IDENTIFICATION

Mercury 99.9999%

Jiangsu Suqian Hengyi Light Source Material Co., Ltd.

Registered Office : Xinghong City South; Flat 605

Suqian City, Jiangsu Province, China

Postal Code 223800

Tel 86 527 84226126

SECTION 2 — PRODUCT NAME, COMPOSITION AND INFORMATION

Mercury Purity 99.9999% (By weight)

CAS Nr. 7439-97-6

Synonym Quicksilver; Colloidal Mercury; Metallic Mercury; Hydragyrum

Usage As raw material for arc discharge lamps

SECTION 3 — PHYSICAL AND CHEMICAL PROPERTIES

Odorless, silver color, very heavy liquid metal.

Boiling Point : 356.7°C

Soluble in nitric acids; Insoluble in water, alcohol and ether.

Melting Point : -38.8°C

Chemical Formula : Hg

Specific Gravity : 13.55

Formula Weight : 200.59

SECTION 4 — HEALTH HAZARDS

Extremely high health hazards resulting from ingestion, skin absorption and inhalation of fume or vapor. Direct absorption by respiratory and intestinal tract.

Corrosive to skin, eyes and mucous membranes.

SECTION 5 — FIRST AID PRECAUTIONS

Consult a physician and seek medical attention for further treatment, observation and support after first aid.

Inhalation : Transfer to fresh air at once. Administer artificial respiration immediately in case of breathing difficulty.

Eye or External : Immediately flush with fresh water for at least 15 minutes.

Internal : Rinse mouth. Consult a physician or poison control at once.

SECTION 6 — FIRE FIGHTING PRECAUTIONS

Relatively stable, noncombustible liquid.

When heated to decomposition, emits toxic fumes of Hg.

Fire Fighting Instructions : Use dry chemical fire extinguisher to put out surrounding fire. Firefighters should wear PPE and SCBA with full facepiece operating in positive pressure mode.

SECTION 7 — SPILLAGE

Proliferation of droplets may result in toxic spillage, requiring special care in the clean up. Clean up all droplets and transfer to a safe container. Scatter zinc dust to amalgamate the spillage into solid. Ventilate and wash the area.

SECTION 8 — HANDLE AND STORAGE

Store in tightly enclosed corrosion-resistant glass or plastic containers; avoiding direct sun light and heat. Dispense in a plastic tray so that spillage can be easily recovered.

SECTION 9 — EXPOSURE CONTROLS AND PROTECTION

Always wear chemical splash goggles, chemical-resistant gloves and apron to avoid contact with eyes, skin and clothing. Ventilate the work area to maintain airborne concentration below exposure limits. Always wear a respirator with proper cartridges, or a positive pressure, air supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines :
STEL 0.03 mg/m³ ; Ceiling 0.1 mg/m³ .

SECTION 10 — STABILITY AND REACTIVITY

Avoid ammonia, aluminum, potassium, lithium, sodium, bromine, halogens, sulfuric acid, oxidizing agents and nitric acid.
Shelf life : Good when stored properly.

SECTION 11 — TOXICOLOGY

Acute effects : Highly toxic, corrosive.
Chronic effects : Not all health aspects of this material have been fully investigated.
Target organs : Skin, respiratory system, CNS, kidneys and eyes.
Notes : Not all health risks of material have been fully studied.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 --- DISPOSAL PRECAUTIONS

Follow all local regulations that may apply.

Returning material to a local Mercury recycler strongly recommended.

SECTION 14 --- TRANSPORT INFORMATION

Shipping name : Mercury

Hazard Class : 8, Corrosive.

UN Number : UN2809

SECTION 15 --- REGULATORY INFORMATION

US Federal : TSCA Listed.

On State Right to know lists in some states.

California - Warning : This product contains Mercury, a chemical known to the State of California to cause developmental reproductive Toxicity.

European / International Regulations

European Labeling in accordance with EC Directives

Hazard Symbols : T

Risk Phrases : R 23 Toxic by inhalation; R 33 Danger of cumulative effects.

SECTION 16 --- DISCLAIMER

This Material Safety Data Sheet was composed based on information and tests believed to be reliable. This data sheet is to provide reference and guidance to relevant parties handling or transporting the material. Data included should not be quoted as challenge to any local regulations, shipping and insurance mandates. This data sheet constitutes no Warranty on the part of the producer.

