



HENRY SCHEIN®

DENTAL AMALGAM ALLOY

MATERIAL SAFETY DATA SHEET • MSDS # _____

Henry Schein Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate, to use and understand the data in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

Distributed by
Distribué par:

Distribuido por:
Vertrieb durch:

HENRY SCHEIN INC.
Melville, NY 11747 USA
Henry Schein U.K. Holdings Ltd.
Southall, Middlesex, UB2 4AU England

WARNING: This product contains mercury, a chemical known to the State of California to cause birth defects or other reproductive harm.

I. EMERGENCY CONTACT

CHEMTREC: 1 (800) 424-9300
INFORMATION: 1 (800) 472-4346

II. INGREDIENTS

Silver
Copper
Tin

III. PHYSICAL CHARACTERISTICS

APPEARANCE: Silver colored powder
SPECIFIC GRAVITY: 9 gm/cc
MELTING POINT: 1500°C (2732°F)

IV. FIRE HAZARD

Silver powder alloy can be combustible solid.
Toxic fumes may be produced in a fire.
Use dry chemicals appropriate for extinguishing metal fires.
Do not use water.

V. HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation

OSHA LEGAL LIMIT FOR 8-HOUR EXPOSURE: 0.01 mg/m³

SKIN: If skin contacts silver dust or small particles enter small cuts, tattooing may occur, Wash thoroughly to prevent staining.

EYES: Flush immediately with a large quantity of water. Seek medical attention.

VI. HANDLING AND STORAGE

Prior to working with alloy, you should be trained on its proper handling and storage.

This silver alloy must be stored to avoid contact with Acetylene, Ammonia, Hydrogen Peroxide, or Ethyleneimine since a violent reaction will occur.

VII. GENERAL PRECAUTIONS

Avoid breathing dust, avoid skin contact.

Rev. 1/01 Part # 14-734



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MERCURY (IF ALLOY IS CAPSULATED)

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INFORMATION: 1 (800) 472-4346

II. CAS NUMBER

7439-97-6

III. DOT NUMBER

UN2809

IV. OSHA PEL

0.01 mg Hg/m³

V. ACGIH TLV

0.05 mg Hg/m³

VI. PHYSICAL CHARACTERISTICS

APPEARANCE: Silver colored liquid

SPECIFIC GRAVITY: 13.6 cc

MELTING POINT: Liquid at room temperature

BOILING POINT: 357°C (675°F)

VAPOR PRESSURE: 0.0012 mmHg @ 20°C (68°F)

VII. FIRE HAZARD

Poisonous gas produced in fire. Use dry chemical, CO₂, water spray, or foam extinguisher. Mercury must be stored to avoid contact with chlorine dioxide, nitric acid, nitrates, ethylene oxide, chlorine and methylazide. Violent reactions will occur.

VIII. HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS: The following acute (short-term) health effects may occur immediately or shortly after exposure to Mercury.

Exposure to high levels of Mercury vapor (1.2 mg/m³) can irritate the lungs, causing cough, chest tightness, shortness of breath and fever. This usually begins one to four hours after exposure and can go on to fluid in the lungs (pulmonary edema) and death.

CHRONIC HEALTH EFFECTS: The following chronic (long-term) health effects can occur at some time after exposure to Mercury and can last for months or years.

Repeated low exposure or a very high single exposure can cause Mercury poisoning. Symptoms included tremors (shaking), trouble remembering and concentrating, gum problems, increased salivation, loss of appetite and weight, and changes in mood and personality.

Repeated vapor exposures (usually more than five years) can cause clouding of the eye lens.

Mercury may cause a skin allergy. If allergy develops, very low future exposures can cause itching and a skin rash. Exposure can cause kidney damage.

Mercury may lower sex drive.

IX. HAZARD SUMMARY

Mercury can affect you when breathed in and by passing through your skin.

High exposure can cause chest pain, shortness of breath, and a build-up of fluid in the lungs (pulmonary edema). This can cause death.

Repeated exposures can cause Mercury poisoning with kidney disease, tremors, gum problems, trouble remembering and concentrating, and changes in mood.

Long-term exposure can cause clouding of the eyes.

Mercury is a **corrosive chemical**.

X. PRECAUTIONS FOR SAFE HANDLING

Prior to working with Mercury, you should be trained in its proper handling and storage.

Avoid contact with skin.

Spills should be cleaned up immediately. Kits specific for cleanup of Mercury are available.

It is necessary to dispose of Mercury as a hazardous waste.

Heated mercury evolves high levels of toxic vapors.