



## MICROMATTER

4004 Wesbrook Mall, Vancouver, B.C.  
V6T 2A3 Canada

[www.micromatter.com](http://www.micromatter.com)

## MATERIAL SAFETY DATA SHEET

### Ag-Hg XRF Calibration Materials

Standards and Reference Samples Containing Silver Amalgam  
(Solid Dental Amalgam Type Alloy)

Micromatter urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with this 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.

In order 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; (3) request its customers to notify their employees, customers and other users of the product of this information.

#### **Manufacturer:**

Micromatter, 4004 Wesbrook Mall, Vancouver, British Columbia, Canada V6T 2A3  
(604)221-2286, [www.micromatter.com](http://www.micromatter.com)

#### **Chemical Form:**

Silver Amalgam, Ag-Hg

#### **Ingredients and Components:**

##### Metal layer:

Mercury – 50±20 wt% (typical)

Silver – balance

##### Other components:

Polymer film or polymer membrane backing

Polymer mount (ring, square, other)

Polymer cover foil (encapsulated calibration materials only)

**Physical Characteristics:**

Appearance – Solid silver colored metallic coating on polymer film

Specific Gravity of Amalgam – approx. 9 g/cc

Melting Point of Amalgam – greater than 1,000 °C

**Fire Hazard:**

Toxic fumes may be produced in a fire.

Use dry chemicals appropriate for extinguishing metal fires.

Do not use water.

**Handling and Storage:**

This product should only be used for its intended purpose.

This product should only be handled by trained persons.

This product must be stored to avoid contact with acetylene, ammonia, hydrogen peroxide or ethyleneimine as a violent reaction may occur.

Do not touch metal surface.

Do not use this product if damaged.

**General Precautions:**

Avoid skin contact. Avoid breathing in dust if product is damaged.

**Health Hazard Data:**

Route of Entry: Inhalation; OSHA Legal Limit for Exposure: 10 µg/m<sup>3</sup>

Skin: If skin contacts small particles or dust, wash thoroughly.

Eyes: Flush immediately with large quantities of water. Seek medical attention.