

MATERIAL SAFETY DATA SHEET

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Name of product
High Strength Silver Clay (PMC Sterling)

SECTION 1

Manufacturer's Name
 MITSUBISHI MATERIALS CORPORATION
 PRECIOUS METALS DIVISION
 CARD & CLAY BUSINESS DEPARTMENT

Address	Information
7F Shin Tokyo BLDG. 3-3-1, Marunouchi, Chiyoda-ku, Tokyo 100-8338, JAPAN	TEL 81-3-5252-5430 FAX 81-3-5252-5442

Data prepared
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SECTION2 Ingredient/Exposure Limit Information

Chemical Components	CAS No.	TLV	PEL	REL	%
Silver Powder	7740-22-4	0.1mg/m ³ (m)	0.01mg/m ³	0.01mg/m ³	≥81
Copper(II)Oxide	1317-38-0	0.2mg/m ³ (m)	N.E.	N.E.	≤8
Organic Binder	Unknown	N.E.	N.E.	N.E.	<11
Water	7732-18-5	N.E.	N.E.	N.E.	<11

m=mist,s=Soluble compounds of silver,Ag=As silver,hr=10hr TWA,N.E.=None Established(Exposure Limit)

SECTION 3 - Physical/Chemical Characteristics

Boiling point(Solvent)	NA	Specific Gravity(H ₂ O=1)	10.5 (as silver metal)
Vapor Pressure(mmHg)	NA	Melting Point(°C)	1640°F (893°C)
Vapor Density(AIR=1)	NA	Evaporation Rate	NA
Solubility in Water	Insoluble		
Appearance and Odor	Gray solid Odorless		

SECTION 4 -Fire and Explosion Hazard Data

Flash point	NA	Flammable Limits	LEL	UEL
Auto Ignition Temperature	NA		Unkown	Unkown
Extinguishing Media	Dry powder or water			

Special Fire Fighting procedures
 Use self-contained breathing apparatus and full protective clothing for fires in enclosed areas.

Unusual Fire and explosion Hazards
 None Known

SECTION 5 -Reactivity Data

Stability	Stable	Conditons to avoid None Known
Incompatibility	Strong oxidizing materials,acids	
Hazardous Decomposition or Byproducts	None Known	
Hazardous Polymerization	Will Not Occur	Conditions to avoid None Known

SECTION 6 -Health Hazard Data

Route of Entry: Inhalation,Ingestion,skin and eye contact

Signs and Symptoms of Exposure

May irritate eyes,skin,and respiratory tract. Other symptoms may include blue grey discoloration of eyes, skin and mucous membranes.

Chronic Signs and Symptoms of Overexposure:

Exposure to fume or dust may cause accumulation of silver in the body causing a blue-grey discoloration of eyes,skin,and mucous membranes.

First Aid Procedures

Eye Contact: Flush eyes with plenty of water.If irritation develops and persists or if injury has occurred, seek medical attention.

Skin Contact: In case of skin contact,wash thoroughly with soap and water.

Inhalation: Remove victim to fresh air. Restore breathing if necessary. Seek medical attention immediately

Ingestion: Rinse mouth thoroughly with water. Seek medical attention immediately.

SECTION 7 -Precautions for safe Handling and Use

Steps to be taken in case material is released or spilled.

Use wet sweeping or vacuuming. Avoid dust generation.

Waste disposal method

Contact supplier or a licensed chemical waste disposal contractor for treatment,packaging,and disposal requirements.

Precautions to be taken in handling and storing

Clay hardens if exposed to the air for any length of time. Keep tightly wrapped at normal temperature.

SECTOIN 8 -Control Measures**Respiratory protection**

A NIOSH approved dust/fume respirator should be worn where applicable limits may be exceeded.

Ventilation: Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below TLV.

Protective gloves

Use plastic or rubber gloves and aprons where necessary to avoid skin contact.

Eye protection

Safety glasses or goggles should be worn in area where splashing may occur.

Other protective clothing or equipment

None Known

Work/Hygienic practices

Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

The information herein is given in good faith, but no warranty, express or implied, is made.