

Argentium Sterling® Material Safety Data Sheet (MSDS)

KULTAKESKUS OY

April, 2001

1. IDENTIFICATION OF SUBSTANCE & COMPANY DETAILS

Product Name: ARGENTIUM STERLING

Product Code: 102

Supplier: KULTAKESKUS OY
PAROISTENTIE 2
13101 HÄMEENLINNA
FINLAND
Tel: -358-3-65711
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2. COMPOSITION - INFORMATION ON ALLOY

Chemical Name	C.A.S. #	EEC #	Weight%
Silver	7440-22-4	231-131-3	92.5
Copper	7440-50-8		6.3
Germanium	7440-56-4		1.2

3. HAZARD IDENTIFICATION

Important Hazard: Metal is non-reactive

Specific Hazard: When remelting silver/copper, fume may cause metal fume fever.

4. FIRST AID MEASURES

General Advice: Present safety data sheet to attending doctor.

Inhalation: Remove patient to fresh air. Seek medical attention if respiratory symptoms develop.

Skin Contact: After handling alloy wash hands with soap and water. If skin irritation develops seek medical attention.

Eye Contact: If dust from powdered alloy causes eye irritation irrigate with water or isotonic saline. Seek medical attention.

Ingestion: If the alloy in powder form is ingested rinse mouth with water. Give patient water or milk to drink. Do not induce vomiting. Seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry powder, sand, or carbon dioxide

Extinguishing Media Which for Safety Reasons Should Not Be Used: Water

Specified Hazard: Molten metal is explosive if sprayed with water.

Special Protective Equipment for Fire Fighting: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear protective equipment. If the alloy is in powder form, avoid inhaling dust and dust in the eyes.

Environmental Precautions: None

7. HANDLING & STORAGE

Handling: Do not inhale dust

Storage: No special precautions required

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Data Taken From Health and Safety Executive Document EH40/98 Occupational Exposure Limits Constituents & Decomposition Products)

	Long Term Exposure Limit (8h TWA Value)	Short Term Exposure Limit (8h TWA Value)
OES Silver, metallic	0*10 mg m-3	
OES Copper fume	0*20 mg m-3	
OES Silver compounds (Ag)	0*01 mg m-3	
OES Copper dust mist (Co)	1*0 mg m-3	2*0 mg m-3
OES Germanium	0*64 mg m-3	1*9 mg m-3

Wear suitable protective clothing, gloves, and eye/face protection if handling powders or producing metal dust.

9. PHYSICAL & CHEMICAL PROPERTIES

Form: Metal - sheet, strip, rod

Color: Metallic, silver/white

Odor: None

PH Value: Not applicable

Melting Point: 765°C (1,409°F) - 940°C (1,724°F)

Specific Gravity: 10.3 at 20°C (68°F)

Solubility in Water: Insoluble

Viscosity: Not relevant

Radioactivity: Not relevant

10. STABILITY & REACTIVITY

Stability: Stable

Conditions to Avoid: Overheating

Materials to Avoid: Strong acids

Conditions to Avoid (Polymerization): Not relevant

Hazardous Decomposition Products: Toxic metal oxides

11. TOXOLOGICAL INFORMATION

Acute Toxicity: Not known

Local Effects: Not known

Long Term Toxicity: Not known

Chronic Toxicity: Not known

12. ECOLOGICAL INFORMATION

Mobility: No Information

Degradability: Long term corrosion

Bio Accumulation: No information

Eco Toxicity Effects: No information

13. DISPOSAL CONSIDERATIONS

Waste, Scrap, Unused Products: Return to supplier

Contaminated Packaging: Not applicable

14. TRANSPORT INFORMATION

Shipping Name: Metal alloy

Shipping Restrictions: None

15. REGULARITY INFORMATION

Classification according to European Directive on Classification of Hazardous Preparations
90/492/EEC