

# 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  
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## **2. COMPOSITION - INFORMATION ON ALLOY**

<b>Chemical Name</b>	<b>C.A.S. #</b>	<b>EEC #</b>	<b>Weight%</b>
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)

	<b>Long Term Exposure Limit (8h TWA Value)</b>	<b>Short Term Exposure Limit (8h TWA Value)</b>
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