

**MATERIAL SAFETY DATA SHEET**

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Page 1  
MSDS NUMBER: M6000-2

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ISSUE DATE: 01-29-01  
SUPERSEDES: \*CHANGE \*\*ADDITION \*\*\*CORRECTION

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CHEMICAL NAME: SILVER METAL, COPPER METAL

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TRADE NAME AND SYNONYMS: SILVER/COPPER POWDER

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CHEMICAL NAME	CAS NUMBER	PERCENT
SILVER METAL	7440-22-4	1-99%
COPPER POWDER	7440-50-8	99-1%

TRADE NAME AND SYNONYMS: SILVER METAL, COPPER METAL

CHEMICAL FAMILY: METAL POWDER

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PHYSICAL DATA

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APPEARANCE AND ODOR: DARK GREY TO LIGHT GREY POWDER, NO ODOR

VAPOR DENSITY (AIR=1): NA DENSITY: 8.96-10.49

VAPOR PRESSURE (mm HG): NA MELTING POINT: 1436-1984° F

EVAPORATION RATE (BUTYL ACETATE): NEGLIGIBLE BOILING POINT: 4653° F

SOLUBILITY IN WATER: INSOLUBLE

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**HAZARDOUS INGREDIENTS**

MATERIAL	PERCENT BY WEIGHT	OSHA PEL mg/M3	ACGIH TWA mg/M3
SILVER	1-99%	0.01 mg/M3	0.1 mg/M3
COPPER (LIMITS FOR DUST) (LIMITS FOR FUMES)	99-1%	1mg/M3 0.1mg/M3	1mg/M3 0.2mg/M3

THIS PRODUCT IS REGULATED AS A TOXIC CHEMICAL UNDER SECTION 313 OF TITLE III/SARA, AND 40 CFR, PART 372.

THIS PRODUCT IS NOT REGULATED BY THE CALIFORNIA PROPOSITION 65 LIST.

ALL INGREDIENTS ARE LISTED IN THE TSCA INVENTORY.

**HEALTH HAZARD DATA**

**SYMPTOMS OF OVEREXPOSURE:**

INHALATION:	RESPIRATORY ILLNESS.
CONTACT WITH SKIN OR EYES:	SKIN DISORDERS.
ABSORBED THROUGH SKIN:	DATA NOT AVAILABLE.
SWALLOWED:	DATA NOT AVAILABLE.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE:**

ACUTE: NONE  
CHRONIC: ARGYRIA

**EMERGENCY AND FIRST AID PROCEDURES:**

INHALATION:	MOVE VICTIM TO FRESH AIR. CONSULT PHYSICIAN IF DISCOMFORT PERSISTS.
SKIN CONTACT:	WASH THOROUGHLY WITH SOAP AND WATER.
EYE CONTACT:	WASH THOROUGHLY WITH WATER.
INGESTION:	INDUCE VOMITING IF VICTIM IS CONSCIOUS. CONSULT PHYSICIAN.

SUSPECTED CANCER AGENT: NO

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FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT: NON-FLAMMABLE

AUTOIGNITION TEMPERATURE, F.: NA

FLAMMABLE LIMITS IN AIR, VOLUME %: LEL: NA UEL: NA

FIRE EXTINGUISHING MATERIALS:  
USE MEDIA APPROPRIATE FOR THE SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURE:  
IF MATERIAL IS FULLY INVOLVED IN A FIRE, WEAR A NIOSH/MSHA APPROVED, SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE GEAR. COLLECT METAL FOR RECLAMATION.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

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REACTIVITY DATA

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STABILITY: STABLE

CONDITIONS TO AVOID: AVOID CREATING DUST.

INCOMPATIBILITY (MATERIALS TO AVOID): FLAMMABLE LIQUIDS AND GASES, HYDROGEN, SULFUR, PEROXIDES, AMMONIA, SULFURIC ACID, TARTARIC ACID, ALUMINUM.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NA



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SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
CAREFULLY COLLECT ALL SPILLED MATERIAL. STORE IN A SEALED CONTAINER AND RETAIN FOR METAL RECOVERY.

WASTE DISPOSAL METHOD:  
SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

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SPECIAL HANDLING INFORMATION

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VENTILATION: LOCAL EXHAUST.  
RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR.  
EYE PROTECTION: CHEMICAL SAFETY GOGGLES.  
GLOVES: RUBBER GLOVES.  
OTHER CLOTHING AND EQUIPMENT: WEAR PROTECTIVE CLOTHING.  
WORK PRACTICES, HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR SMOKING.

OTHER HANDLING AND STORAGE REQUIREMENTS: AVOID CREATING DUST.  
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IN CASE OF QUESTIONS, PLEASE CALL:

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Naugatuck, CT 06770  
Tel: (203) 729-7940 Fax: (203) 729-5989  
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