


SAFETY DATA SHEET

Product Name: Gold – Core Material
Catalog Number: 110796 – UHV Solder
SDS Update: 05/30/2023

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	Distributed By: Accu-Glass Products, Inc. 25047 Anza Drive Valencia, CA. 91355 (818) 365-4215
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HAZARDOUS COMPONENTS

	CAS Number	Percent	Exposure Limits
Gold	7440-57-5	85	
Proprietary Alloy		15	
Chemical Family:	Metal		
Chemical Name:	Alloy		



PHYSICAL AND CHEMICAL DATA

Physical State:	Solid Metal
Odor:	None
Color	Golden / Silver
Melt Point	280°C
Solubility in Water:	Insoluble
Specific Gravity	Varies
Volatile by weight	Essentially zero

FIRE AND EXPLOSION HAZARD DATA



Flash Point: Non-flammable as a solid
Extinguishing Media: This material is non-combustible. Use appropriate extinguishing agent for surrounding fires. Do not use water to extinguish fires around operations involving molten metal, due to the potential for steam explosion.



Special Fire Fighting Procedures: Self-contained breathing apparatus should be worn when fighting metal dust fires. High levels of dust or fine particles in the air may ignite or explode.

HEALTH HAZARD DATA

Emergency Overview: The alloys as sold in solid form are generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulates could be generated.



Primary Routes of Entry: Inhalation, Skin contact
Target Organs: Skin
Human Effects & Symptoms of Overexposure: Listed below are certain potential health hazards, which apply to the hazardous ingredients, found in the subject alloy(s).

Gold – Generally Non-Toxic	
Skin	May cause contact dermatitis
Inhalation	Dust could be irritating to respiratory tract
Ingestion	Generally non-toxic

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HEALTH HAZARD DATA - Continued

Medical Conditions Aggravated by Exposure: Individuals who may have had allergic reactions to metals or sensitivity, may encounter skin rash or dermatitis, if skin contact with the product occurs. Persons with impaired pulmonary functions may incur further impairment if dust or fumes are inhaled.



Carcinogenic References:

Components are not listed in the Annual Report on Carcinogens as prepared by the National Toxicology Program, as well as the International Agency for Research on Cancer Monograph Series, or by OSHA

EMERGENCY AND FIRST AID

First Aid for Eyes: Dust or powder should be flushed from the eyes with running water for 15 minutes. If irritation persists, obtain medical assistance.

First Aid for Skin: Skin cuts and abrasions can be treated by standard first aid. Skin contamination with dust or powder can be removed with soap and water. If irritation persists, obtain medical assistance.

First Aid for Ingestion: Obtain medical assistance at once.

First Aid for Inhalation: Breathing difficulty, caused by inhalation of dust or fume requires removal to fresh air. If breathing has stopped, perform artificial respiration and seek medical assistance at once.

REACTIVITY DATA

Stability: This is a stable material.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Conditions which create dust or fumes

Incompatibility: Acetylene, Ammonia, Acids and Strong Oxidizers

Hazardous Decomposition Products: None under proper usage conditions

SPILL, DISPOSAL AND STORAGE INFORMATION

Spill or Leak Procedures: In solid form this material poses no special clean-up problems. Use normal clean up procedures; wet sweeping of HEPA vacuum, for clean up of dust or powder. Do not use compressed air for cleaning.

Disposal: Because of its high intrinsic value this material should be reclaimed. Dispose of in accordance with all applicable Federal, State and Local Regulations.

Storage: In solid form this material poses no special problems. Store metal in a dry area. Do not store adjacent to acids.

EXPOSURE CONTROL / PERSONAL PROTECTION

Eye protection requirements: Safety glasses are recommended

Skin protection requirements: Protective gloves are recommended, to prevent mechanical irritation

Respiratory protection: Not normally required. Use an appropriate NIOSH approved respirator if airborne dust concentration exceed the OSHA, PEL, or ACGIH, TLV

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EXPOSURE CONTROL / PERSONAL PROTECTION - Continued

Other protective equipment: Eye wash fountain should be readily available in areas of use or handling.

Exposure limits: Not established for product as whole.

Ventilation Requirements:

Local Exhaust: Recommended, when cutting, grinding or melting, or any other operation where dust or fumes are created.

General: Recommended

Environmental Surveillance: If the operation generates dust or fumes, exposure to airborne materials should be determined by having air samples taken in the employees breathing zone and work area.



TOXICOLOGICAL INFORMATION

There is no information on the toxicity of this alloy. Under normal use of the solid form of this material there are a few health hazards. Welding, cutting grinding or any process creating dust, fume or oxide may cause hazardous levels of certain elements.

ECOLOGICAL INFORMATION

In solid form this material poses no special environmental problems. Metal powder or dust may have significant impact on air and water quality. Emissions, spills and releases to the environment should be controlled immediately.

TRANSPORT INFORMATION

Proper Shipping Name: Not regulated

Technical Shipping Name: Metal Alloy

DOT Hazard Class: None

Un/NA ID: None

Product RQ: None

REGULATOR INFORMATION

OSHA Status: No specific regulations; The Hazard Communication Standard of the Occupational Safety and Health Administration, 29 CFR 1910.1200, considers components of this product a Hazardous Substance.

TSCA Status: These products are a mixture. Components of these products are listed on the TSCA Chemical Substance Inventory of Existing Chemical Substances.

RCRA Status: Not regulated.

SARA Title III: The constituents of the alloy contain hazardous substances, above one (1) percent, and are subject to the reporting requirements under SARA Title III Section 313.

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REGULATOR INFORMATION - Continued

International Regulations:

Canada – WHMIS Disclosure List: Material does not fall into any Subdivision, Division, as defined by any Section of Canada Gazette Part II. Vol. 122, No. 2 SOR/DORS/88-66



OTHER INFORMATION:

Disclaimer of Liability:

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