



Material Safety Data Sheet

Gold – Core Material

WG-0035
Page: 1 of 4

Section 1: Product and Company Identification

PRODUCT NAME: Gold - Core Material
CHEMICAL FAMILY: Metal
CHEMICAL NAME: Alloy
MANUFACTURER: Williams Advanced Materials
2978 Main Street
Buffalo, NY 14214

EMERGENCY TELEPHONE: 716-837-1000 716-838-1129 (24 hour)

Section 2: Composition/Ingredients

<u>MATERIAL</u>	<u>CAS No.</u>	<u>%</u>	<u>* TLV, ACGIH</u>	<u>* PEL, OSHA</u>
Gold	7440-57-5	99 – 99+	N/A	N/A

*All exposure limits are in milligram per cubic meter of air (mg/m³)

Section 3: Hazard Identification

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 AND SYMPTOMS OF OVEREXPOSURE: Listed below are certain potential health hazards, which apply to the hazardous ingredients, found in the subject alloy(s).

GOLD: Generally None Toxic
Skin - May cause contact dermatitis
Inhalation - Dust could be irritating to respiratory trace
Ingestion - Generally none toxic

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 this 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

Section 4: First Aid Measures

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.



Material Safety Data Sheet

Gold – Core Material

WG-0035
Page: 2 of 4

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.

Section 5: Fire Fighting Measures

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.

Section 6: Accidental Release Measures

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

Section 7: Storage and Handling

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

Section 8: 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

OTHER PROTECTIVE EQUIPMENT: Eye wash fountain should be readily available in areas of use or handling.

EXPOSURE LIMITS: Not established for product as whole. Refer to Section 2.

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.

Section 9: Physical and Chemical Properties

PHYSICAL FORM:	Solid metal	COLOR:	Golden/Yellow
ODOR:	None	MELT POINT:	1064° C
SOLUBILITY IN WATER:	Insoluble	SPECIFIC GRAVITY:	Varies
VOLATILE BY WEIGHT:	Essentially zero	VAPOR PRESSURE:	1 mm @ 1869°
VAPOR DENSITY:	17.0 @ 1063°		



Material Safety Data Sheet
Gold – Core Material

WG-0035
Page: 3 of 4

Section 10: Reactivity

STABILITY: This is a stable material. HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Acetylene, Ammonia, Acids and Strong Oxidizers.
DECOMPOSITION PRODUCTS: None under proper usage conditions.
CONDITIONS TO AVOID: Conditions which create dust or fumes.

Section 11: Toxicological Information

There is no information on the toxicity of this alloy. Under normal use of the solid form of this material there are few health hazards. Welding, cutting grinding or any process creating dust, fume or oxide may cause hazardous levels of certain elements, as addressed in Section 2.

Section 12: 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.

Section 13: Disposal Considerations

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

Section 14: Transportation Information

D.O.T. SHIPPING NAME:	Not regulated	TECHNICAL SHIPPING NAME:	Metal Alloy
D.O.T. HAZARD CLASS:	None	UN/NA NUMBER:	None
PRODUCT RQ:	None		

IATA, Dangerous Goods Regulations: Not Regulated, in solid form

Section 15: Regulatory 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



Material Safety Data Sheet
Gold – Core Material

WG-0035
Page: 4 of 4

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

SUBSTANCE	CAS No.	PERCENT MAXIMUM
None		

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

Section 16: Other Information

PREPARED BY: Lee Oman, CECM

DATE OF REVISION: August 2000

This MSDS has been revised following the guidelines outlined in the American National Standard for Hazardous Materials Z400.1.1393 “Material Safety Data Sheets – Preparation”

DISCLAIMER:

The information and recommendations are taken from sources believed to be accurate. Williams Advanced Materials makes no warranty with respect of the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.