Safety Data Sheet

THE ARGEN CORPORATION

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SECTION 1 - SUBSTANCE IDENTIFICATION

PRODUCT NAME: ARGEDENT BIO 89PF

DESCRIPTION: Color: RICH YELLOW Type: 4

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

METAL	%	SYMBOL	CAS NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
GOLD	88.4	Au	7440-57-5	Not established	Not established
PLATINUM	9.5	Pt	7440-06-4	No data	No data
IRIDIUM	<1	Ir	7439-88-5	No data	No data
INDIUM	<1	In	7440-74-6	0.1 mg/m3	0.1 mg/m3 TWA
ZINC	<1	Zn	7440-66-6	5mg/m3	No data
MANGANESE	1	Mn	7439-96-5	5 mg/m3	5 mg/m3

Note: % values are in weight percent and reflect nominal composition.

Note: 'x' denotes a content of less than one percent

SECTION 3- HAZARDS IDENTIFICATION

EYES: Contact with eyes may cause severe irritation and possible eye burns.

SKIN: May cause severe irritation and possible burns.

INGESTION: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

INHALATION: May cause irritation and burns to the respiratory tract.

NOTE: Exposure levels for elements in this alloy are listed in SECTION 2. The following health data is for

specific elements:

INDIUM May cause fetal effects based upon animal studies. May cause lung damage and

blood abnormalities. Target Organs: Blood, kidneys, liver, lungs.

MANGANESE Dust inhalation may cause tightness and pain in chest, coughing, and difficulty in

breathing. Inhilation of dust may cause headache, nausea, vomiting, shortness of breath, or blurred vision. Dust may irritate skin or eyes. Ingestion may cause central nervous system depression. Prolonged inhilation of Manganese in the form of its inorganic compounds may cause Manganism. Target organs: Respiratory system, central nervous system, blood, kidneys. Medical conditions generally aggravated by exposure: Chronic respiratory disease, liver or kidney disorders,

psychiatric disorders, alcoholism, and nerve system disorders.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting

the upper and lower lids.

SKIN CONTACT: Scrub skin thoroughly with soap and water.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting.

**Never give anything by mouth to an unconscious person. Get medical aid.

INHALATION: Remove affected person to fresh air and assist with additional oxygen if necessary.

Get first aid if other symptoms appear.

SECTION 5 - FIREFIGHTING MEASURE

This material is fire and explosion resistant. Heating Beyond the melting range may generate fumes which are not flammable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: Use proper personal protective equipment as described in section 8.

SECTION 7 - HANDLING AND STORAGE

Avoid inhalation of fumes while melting and dust while grinding. Wash hands thoroughly before eating or smoking to avoid ingestion.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTIONS

RESPIRATORY: Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 2. Wear

a NIOSH approved respirator for dust exceeding the TLVs.

HAND: Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and

handling hot metals or molds.

EYE PROTECTION: Wear eye protection suitable to each individual operation.

OTHER: Wear apron, lab coat or other protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: RICH YELLOW Odor: Not Applicable pH: Not Applicable **Boiling Point:** Not Applicable Melting Range: 1050-1160 °C Not Applicable Flash Point: Flammability: Not Applicable Autoflammability: Not Applicable Not Applicable Explosive Properties: Oxidizing Properties: Not Applicable Vapor Pressure: Not Applicable Solubility(Water/Fat): Insoluble

SECTION 10 - STABILITY AND REACTIVITY

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

No specific instructions.
SECTION 12 - ECOLOGICAL INFORMATION
This is an environmentally friendly material. With proper dust collecting equipment, 100% of this alloy can be recycled.
SECTION 13 - DISPOSAL CONSIDERATIONS
Whenever possible, recover dust because it has economic value.
SECTION 14 - TRANSPORT INFORMATION
No specific instructions.
SECTION 15 - REGULATORY INFORMATION
No specific instructions.

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SECTION 16 - OTHER INFORMATION

Revision Date: 5/30/2011

to which information refers.