

## MATERIAL SAFETY DATA SHEET

### SECTION I: MATERIAL IDENTIFICATION

#### **Noble Metal Ceramic Alloys**

**Material Names:** Auribond 97, Auribond 90, Auribond-GP, Auritex-75, Auritex-66, Auritex 40, Auritex-EP, Auritex-HP, Auritex-WP, Auritex-XP, Auritex-ZP, Elite, Elite II, Marathon, Summit, Windsor, Vision, Triumph

### SECTION II: INGREDIENTS AND HAZARDS

Gold	(Au)	0.0-97.5%	(CAS 7440-57-5)
Platinum	(Pt)	0.0-10.0%	(CAS 7440-06-4)
Palladium	(Pd)	4.7-80.0%	(CAS 7440-05-3)
Silver	(Ag)	0.0-37.5%	(CAS 7440-22-4)
Copper	(Cu)	0.0-7.9%	(CAS 7440-50-8)
Tin	(Sn)	0.0-9.0%	(CAS 7440-74-5)
Indium	(In)	0.0-8.5%	(CAS 7440-74-6)
Gallium	(Ga)	0.0-7.3%	
Zinc	(Zn)	0.0-5.0%	(CAS 7440-66-6)

For Pure Silver  
8 hr. TLV-0.01 mg/m  
Ceiling level - 0.2mg/m

For Pure Copper  
(Fumes and Dust)  
8 hr. TLV-0.1 mg/m  
Ceiling level- 0.2 mg/m

For Pure Zinc (Fumes)  
8 hr. TLV-5mg/m

### SECTION III: PHYSICAL DATA

Melting range:	2150-2500 F
Density:	10.8-19.6 gm/cc
Solubility in water:	Insoluble
Appearance:	White to golden color, no odor
2dwt. Ingots	

### SECTION IV: FIRE AND EXPLOSION DATA

The alloys are fire and explosion resistant.

**SECTION V: REACTIVITY DATA**

The alloys oxidize at ordinary and high temperatures, but remain stable. At excessively high temperatures, the alloys may produce fumes. .

**SECTION VI HEALTH HAZARD INFORMATION**

Some of the components of the alloys may cause upper respiratory. tract irritation or industrial dermatitis when the worker is exposed to large concentrations of fumes and dust.

**SECTION VII: HEALTH HAZARD INFORMATION  
FIRST AID**

Eye contact: Flush eyes thoroughly with running water, even under eyelids.  
Skin contact: Flush skin and scrub thoroughly with soap and water.  
Inhalation: Remove person to fresh air, assist breathing with the additional oxygen if necessary. Ingestion: Give large quantities of water to induce vomiting. Contact physician.

**SECTION VIII: SPILL OR LEAK PROCEDURES**

Remove dust by vacuum or wet sweeping. Avoid inhalation of dust. Whenever possible recover dust because it has economic value.

**SECTION IX: SPECIAL PROTECTION INFORMATION**

Employ general and local ventilation and exhaust filtration. Use respirator, goggles, gloves and protective clothing.

**SECTION X: SPECIAL PRECAUTIONS**

Avoid inhalation of fumes and dust. Avoid skin contact. Wear protective clothing. Grind and polish with adequate ventilation only. These alloys may be used with a fluoride flux which gives off fumes that can irritate the eyes, nose and throat. Avoid fumes (TLV-2.5 mg/m ). Use only in well ventilated spaces. Avoid contact of flux with eyes or skin. Do not take flux internally.