

**1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY**

Product Name: Fidelity G60  
Product Code: 895, 896

Application: Dental casting alloy

Manufacturer: Leach & Dillon Dental Alloys  
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**2. HAZARD IDENTIFICATION****2.1. Classification of the substance or mixture**

Classification information

This product does not meet the classification criteria in (EC) N° 1272/2008 (CLP)

This product does not meet the labelling criteria stated in 67/548/EWG and 1999/45/EC

**2.2. Label elements**

Labelling is in accordance with (EC) No 1272/2008 (CLP Regulation). Label elements in the solid form which the product is marketed

**2.3. Other hazards**

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 diarrhoea.

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

SILVER Absorption of silver compounds by ingestion, inhalation or through broken skin can cause argyria, a permanent bluish-grey discoloration of the skin, conjunctiva and mucous membranes. Generalized argyria develops after 2 to 25 years of exposure. There are no systematic effects or symptoms and no physical disability. Silver is considered an experimental equivocal tumorigenic agent by RTECS criteria.

PBT assesment: No data available

vPvB assessment: No data available

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances

This product is not a substance - This is not applicable

#### 3.2. Mixtures

Ingredients:

Metal	Symbol	CAS No.	%	EC/EG No.	ACGIH 8 HR TLV	OSHA 8 HR PEL
Gold	Au	7440-57-5	60	231-165-9	Not established	Not established
Palladium	Pd	7440-05-3	3.65	231-115-6	No data	No data
Silver	Ag	7440-22-4	26.95	231-131-3	0.01 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Iridium	Ir	7439-88-5	<1	231-095-9	No data	No data
Copper	Cu	7440-50-8	8.85	231-159-6	0.1 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dust)	0.2 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dust)
Zinc	Zn	7440-66-6	<1	231-175-3	5 mg/m <sup>3</sup>	No data

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

### 4. FIRST AID MEASURES

#### 4.1. Description of 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.

If victim is conscious and alert, give 2-4 cupfuls of milk or 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

### 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

Metal fire powders, sand

#### 5.2. Special hazards arising from the substance or mixture

Heating Beyond the melting range may generate fumes which are not flammable

#### 5.3. Advice for fire-fighters

Wear protective clothing and use a self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**  
For non-emergency personnel  
Use proper personal protective equipment as described in section 8.  
For emergency responders  
Use proper personal protective equipment as described in section 8.
- 6.2. Environmental precautions**  
Collect contaminated materials in separate containers. Discharge according to local regulations.
- 6.3. Methods and material for containment and cleaning up**  
Avoid creating dust and pick-up using mechanical means
- 6.4. Reference to other sections**  
No data available

## 7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling**  
Ensure the workspace has proper ventilation  
Do not consume substances during work.  
General protective and hygiene measures  
Wash hands before and after breaks. Remove contaminated clothing immediately. Do not ingest or allow to come into contact with the eyes.
- 7.2. Conditions for safe storage, including any incompatibilities**  
Keep container closed in a ventilated area
- 7.3. Specific end use(s)**  
No data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Control parameters**  
Occupational exposure limit values
- 8.2. Exposure controls**
- |                 |   |
|-----------------|---|
| RESPIRATORY:    | Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 3. Wear a NIOSH approved respirator for dust exceeding the TLVs.<br>Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or moulds. |
| EYE PROTECTION: | Wear eye protection suitable to each individual operation.  |
| OTHER:          | Wear apron, lab coat or other protective clothing.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. Information on basic physical and chemical properties**
- |                |                |
|----------------|----------------|
| Appearance:    | YELLOW         |
| Odour:         | Not Applicable |
| pH:            | Not Applicable |
| Boiling Point: | Not Applicable |
| Melting Range: | 900-950 °C     |
| Flash Point:   | Not Applicable |

# SAFETY DATA SHEET

Flammability: Not Applicable  
Autoflammability: Not Applicable  
Explosive Properties: Not Applicable  
Oxidizing Properties: Not Applicable  
Vapor Pressure: Not Applicable  
Solubility (Water/Fat): Insoluble

9.2. **Other information:** No data available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

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

### 10.2. Chemical stability

Product is stable under normal storage and handling conditions. See Section 7.

### 10.3. Possibility of hazardous reactions

Hydrogen gas can possibly form if the product comes into contact with acid

### 10.4. Conditions to avoid

N/A if the product is handled according to the Instructions for Use

### 10.5. Incompatible materials

Acid

### 10.6. Hazardous decomposition products

None are known

## 11. TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

No data is available other than the information provided in Sections 2 and 3

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bio-accumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product:

Always recover all waste material and send to Department A at The Argen Corporation for refining.

Packaging:

Empty container completely and dispose according to local regulations.

## 14. TRANSPORT INFORMATION

### 14.1. Transport ADR/RID/AND

This product is not subject to ADR/RID/AND regulations

### 14.2. Transport IMDG

This product is not subject to IMDG regulations

### 14.3. Transport ICAO-TI / IATA

This product is not subject to ICAO-Ti / IATA regulations

### 14.4. Other information

No data available

### 14.5. Environmental hazards

No data is available other than the information provided in Sections 2 and 3

This product is not subject to ICAO-Ti / IATA regulations

### 14.6. Special precautions for user

None

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Germany:

Wassergefährdungsklasse WGK (VwVwS): WGK-1 (self-assessed)

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. FURTHER INFORMATION

### 16.1. Training advice

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

### 16.2. Disclaimer

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. However, Leach & Dillon Dental Alloys makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving the above material will make their own determination as to its suitability for their purposes prior to use. In no event will Leach & Dillon Dental Alloys be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.