

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Fidelity White
 Product Code: 902, 903

Application: Dental casting alloy

Company: Davis Schottlander & Davis Ltd
 Fifth Avenue, Letchworth Garden City,
 Herts SG6 2WD UK
 Tel: +44 (0)1462 480848 Fax: +44 (0)1462 482802
msds@schottlander.co.uk www.schottlander.com

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2. HAZARD 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 diarrhoea.
Inhalation: May cause irritation and burns to the respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Metal	CAS No.	%	ACGIH 8 HR TLV	OSHA 8 HR PEL
Palladium	7440-05-3	33.45	No data	No data
Silver	7440-22-4	52.48	0.01 mg/m ³	0.1 mg/m ³
Iridium	7439-88-5	x	No data	No data
Indium	7440-74-6	2.0	0.1 mg/m ³	0.1 mg/m ³ TWA
Copper	7440-50-8	11.95	0.1 mg/m ³ (Fume) 1 mg/m ³ (Dust)	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dust)
Lithium	7439-93-2	x	No data	No data

NOTE: 'x' denotes a content of less than one percent.

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.

5. FIRE FIGHTING MEASURES

Material is fire and explosion resistant. Overheating may generate fumes.

6. ACCIDENTAL RELEASE MEASURES

- Personal:** Ensure adequate ventilation. Avoid dust formation. See Section 8.
Environmental: Do not allow liquid alloy to enter drains.
Cleaning: Scrape up. Collect in a suitable container for disposal.

7. HANDLING AND STORAGE

- Handling:** Avoid dust and fumes formation. Wear heat resistant gloves when handling hot metal.
Storage: No special conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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 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

- Appearance:** White
Water solubility: Insoluble
Odour: Odourless
Melting range °C: 970-1005

10. STABILITY AND REACTIVITY

The material is stable but may oxidise. At very high temperatures fumes may be produced.

11. TOXICOLOGY INFORMATION

- Silver:** Absorption of silver compounds by ingestion, inhalation or through broken skin can cause argyria, a permanent bluish-grey discolouration of the skin, conjunctiva and mucous membranes. Generalised argyria develops after 2-25 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.
- Indium:** May cause foetal effects based upon animal studies. May cause lung damage and blood abnormalities. Target organs – blood, kidneys, liver, lungs.

12. ECOLOGICAL INFORMATION

100% recyclable.

13. DISPOSAL CONSIDERATIONS

Recover dust and solid waste and recycle. Otherwise dispose of by waste contractor in landfill or incinerator in accordance with local regulations.

14. TRANSPORT INFORMATION

Unrestricted.

15. REGULATORY INFORMATION

No specific information.

16. FURTHER INFORMATION

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.

TLV Threshold Limit Value 8hr
PEL Personal Exposure Limit