

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Matchmate 610
 Product Code: 681

 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	53.6	No data	No data
Silver	7440-22-4	37.5	0.01 mg/m ³	0.1 mg/m ³
Ruthenium	7440-18-8	x	No data	No data
Zinc	7440-66-6	<1	5mg/m ³	No data
Rhenium	7440-15-5	<1	No data	No data
Tin	7440-31-5	8.3	2 mg/m ³	2 mg/m ³

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

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
Skin: 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

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

6. ACCIDENTAL RELEASE MEASURES

Use proper personal protective equipment as described in Section 8.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure the workspace has proper ventilation. Do not consume substance 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.

Conditions for safe storage including any incompatibilities:

Keep container closed in a ventilated area.

Specific end use(s):

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.
Hand:	Latex gloves are recommended while grinding. Heat resistant gloves should be worn while casting and handling hot metals or moulds.
Eyes:	Wear eye protection suitable to each individual operation.
Other:	Wear apron, lab coat or other protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White.	Odour:	Odourless.
Flammability:	Not applicable.	pH:	Not applicable.
Flash point:	Not applicable.	Melting range:	1175-1260°C
Auto flammability:	Not applicable.	Boiling point:	Not applicable.
Explosive properties:	Not applicable.	Oxidising properties:	Not applicable.
Solubility (water/fat):	Insoluble.	Vapour pressure:	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity:

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

Chemical stability:

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

Possibility of hazardous reactions:

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

Conditions to avoid:

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

Incompatible materials:

Acid

Hazardous decomposition products:

None are known

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.
- Rhenium:** The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent direct contact and inhalation.
- Ruthenium:** The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

No data available.

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**Transport ADR/RID/AND**

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

Transport IMDG

This product is not subject to IMDG regulations

Transport ICAO-TI / IATA

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

Other information

No data available

No data available

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

Special precautions for user

None

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

Not applicable

15. REGULATORY INFORMATION

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

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.