

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Matchmate 616
 Product Code: 037, 923

Application: Dental casting alloy

Company: Davis Schottlander & Davis Ltd
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2. HAZARD IDENTIFICATION

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

METAL	%	SYMBOL	CAS NO	EC/EG NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
PALLADIUM	80.2	Pd	7440-05-3	231-115-6	No data	No data
RUTHENIUM	<1	Ru	7440-18-8	231-127-1	No data	No data
INDIUM	5.4	In	7440-74-6	231-180-0	0.1 mg/m ³	0.1 mg/m ³ TWA
GALLIUM	6.8	Ga	7440-55-3	231-163-8	No data	No data
COPPER	4.9	Cu	7440-50-8	231-159-6	0.1 mg/m ³ (Fume) 1 mg/m ³ (Dust)	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dust)
ZINC	<1	Zn	7440-66-6	231-175-3	5mg/m ³	No data
BORON	<1	B	7440-42-8	231-151-2	Not established	Not established
TIN	2	Sn	7440-31-5	231-141-8	2 mg/m ³	2 mg/m ³

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

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

Extinguishing media:

Metal fire powders, sand.

Special hazards arising from the substance or mixture:

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

Advice for fire-fighters:

Wear protective clothing and use a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**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.

Environmental precautions:

Collect contaminated materials in separate containers. Discharge according to local regulations.

Methods and material for containment and cleaning up:

Avoid creating dust and pick-up using mechanical means

7. HANDLING AND STORAGE**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.

Conditions for safe storage, including any incompatibilities:

Keep container closed in a ventilated area.

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:	1160-1255°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

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

Possibility of hazardous reactions:

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

11. TOXICOLOGY INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

This is an environmentally friendly material. With proper dust collecting equipment, 100% of this alloy can be recycled.

13. DISPOSAL CONSIDERATIONS

Always recover all waste material and send to specialist for refining or dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Unrestricted.

15. REGULATORY INFORMATION

No specific instructions.

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