Printing date 30.01.2020

vıvader

Version number 7

Revision: 30.01.2020

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

• Trade name: d.SIGN 84

- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture Manufacture of dental prothesis

Details of the supplier of the safety data sheet
Manufacturer/Supplier: Ivoclar Vivadent Inc.
175 Pineview Drive, Amherst, N.Y. 14228 USA Tel. +1 800 533 6825 Fax +1 716 691 2285

Importer: Ivoclar Vivadent Pty. Ltd. I- 5 Overseas Drive Noble Park North VIC 3174 Tel: + 61 3 9795 9599 / Fax: + 61 3 9795 9645

• Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com

Emergency telephone number: 131 126 (Poisons Information Centre - 24 hours / 7 days)

2 Hazard(s) Identification

\cdot Classification of the substance or mixture

Ox. Sol. 2H272May intensify fire; oxidiser.Skin Corr. 1BH314Causes severe skin burns and eye damage.Eye Dam. 1H318Causes serious eye damage.

· Label elements

• GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: gallium

• *Hazard statements* May intensify fire; oxidiser.

Causes severe skin burns and eye damage.

• **Precautionary statements** Take any precaution to avoid mixing with combustibles.

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Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN (of null). Take of immediately an comuminated comming. Kinse skin with water sh IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Additional information:

Alloys do not require a label, providing they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market.

- Other hazards
- · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• **Description:** Dental alloy

• Dangerous comp	ponents:		
CAS: 7440-05-3	palladium	Ox. Sol. 2, H272	50-100%
CAS: 7440-22-4	silver		10-25%
CAS: 7440-74-6	indium		2.5-10%
CAS: 7440-55-3	gallium	Skin Corr. 1B, H314	2.5-10%
· Additional infor	mation. For the wording of the listed hazard phrases ref	er to section 16	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation:
- Grinding dust: Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: After contact with the molten product, cool rapidly with cold water.
- After eye contact:

Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Mechanical effects only.

- After swallowing: Seek medical treatment.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents:
- The product is not flammable.

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1...

Use fire extinguishing methods suitable to surrounding conditions. • Special hazards arising from the substance or mixture No further relevant information available.

• Advice for firefighters

• Protective equipment: Do not inhale explosion gases or combustion gases.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: No special measures required.

· Methods and material for containment and cleaning up: Pick up mechanically.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· Handling:

· Precautions for safe handling

Extractors are required on all machines used for thermal processing or splinter removal processes. Information about fire - and explosion protection: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: None.

· Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 7440-22-4 silver

NES Long-term value: 0.1 mg/m³

WES Long-term value: 0.1 mg/m³

CAS: 7440-74-6 indium

NES Long-term value: 0.1 mg/m³ as In WES Long-term value: 0.1 mg/m³

as In

• Additional information: The lists valid during the making were used as basis.

• Exposure controls

• Personal protective equipment:

• General protective and hygienic measures:

Usual hygienic measures for dental practice and dental laboratories.

• Respiratory protection: Use respiratory protective device against the effects of fumes/dust/aerosol.

• Protection of hands:

Protective gloves should always be worn during mechanical and thermal processing.

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After use of gloves apply skin-cleaning agents and skin cosmetics. • **Material of gloves** Mechanical processing: Leather gloves Strong material gloves

Thermal processing:

Heat protection gloves

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling).

Information on basic physical and chem	ical properties	
General Information		
Appearance: Form:	Solid	
Colour:	White	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	1140–1335 °C	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	11.3 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Solids content:	100 %	

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• Other information

No further relevant information available.

10 Stability and Reactivity

· Reactivity No further relevant information available.

- *Chemical stability Stable under normal handling and storage conditions.*
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- Respiratory or skin sensitisation No sensitising effects known.
- \cdot Additional toxicological information:
- Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

- Uncleaned packaging:
- *Recommendation:* Disposal must be made according to official regulations.

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UN-Number	
ADG, ADN, IMDG, IATA	Void
UN proper shipping name ADG, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADG, ADN, IMDG, IATA Class	Void
Packing group ADG, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of and the IBC Code	f Marpol Not applicable.
Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
UN ''Model Regulation'':	Void

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Chemical Substances

CAS: 7440-22-4 silver

CAS: 7440-74-6 indium

· Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 7440-22-4 silver

• GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling: gallium
Hazard statements May intensify fire; oxidiser. Causes severe skin burns and eye damage.

· Precautionary statements

Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. *S2*

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Immediately call a POISON CENTER/doctor.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · Seveso category P8 OXIDISING LIQUIDS AND SOLIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- Other regulations, limitations and prohibitive regulations
- *The product is a medical device according to the Directive 93/42/EEC.*
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H272 May intensify fire; oxidiser.
H314 Causes severe skin burns and eye damage.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Sol. 2: Oxidizing solids – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 18
Eye Dam. 1: Serious eye damage/eye irritation – Category 1