Printing date 29.08.2022

vivadent

Version number 5

Revision: 29.08.2022

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

• Trade name: d.SIGN 53

- **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

· Classification of the substance or mixture

Ox. Sol. 2 H272 May intensify fire; oxidiser.

· Label elements

· GHS label elements

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

· Hazard pictograms



Signal word Danger
Hazard statements
May intensify fire; oxidiser.

Precautionary statements
Keep away from heat. - No smoking.
Keep/Store away from clothing/combustible materials.
Take any precaution to avoid mixing with combustibles.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of fire: Use CO2, powder or water spray to extinguish.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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• 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 components:					
CAS: 7440-05-3	palladium	Ox. Sol. 2, H272	50-100%		
CAS: 7440-22-4	silver		25-50%		
CAS: 7440-31-5	tin		2.5-10%		
CAS: 7440-74-6	indium		<2.5%		
• 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.
- · 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.

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• **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

WES Long-term value: 0.1 mg/m³

CAS: 7440-31-5 tin

WES Long-term value: 2 mg/m³

CAS: 7440-74-6 indium

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.

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.

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• Eye protection:

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

9 Physical and Chemical Propertie	28			
· Information on basic physical and chemical 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:	1180–1280 °C			
Initial boiling point and boiling rang	e: 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:	10.7 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 %			
• 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.

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• *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
- Specific symptoms in biological assay:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- 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.

· UN-Number		
· ADG, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· ADĜ, ÂDN, IMDĞ, IATA	Void	
· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· ADG, IMDG, IATA	Void	

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· 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

3 57	0 0 1 0			
· Australian Inventory of Industrial Chemicals				
CAS: 7440-57-5	Gold			
CAS: 7440-22-4	silver			
CAS: 7440-50-8	copper			
CAS: 7440-06-4	platinum			
CAS: 7440-74-6	indium			
CAS: 7439-88-5	iridium			
• Standard for the	Uniform Scheduling of Medicines and Poisons			
CAS: 7440-22-4	silver	S2		
· Australia: Priori	ity Existing Chemicals			
None of the ingre	edients is listed.			
· GHS label eleme	ents			
The product is cl	assified and labelled according to the Globally Harmonised System (GHS).			
• Hazard pictogra	ms			
^				
JANK .				



- · Signal word Danger
- · Hazard statements
- May intensify fire; oxidiser.
- · Precautionary statements
- Keep away from heat. No smoking.
- Keep/Store away from clothing/combustible materials.
- Take any precaution to avoid mixing with combustibles.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of fire: Use CO2, powder or water spray to extinguish.

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
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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· 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.

· Contact:

• Abbreviations and acronyms:

ADR: Accord relatif au transport international 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