# ivoclar vivadeni:

## Safety Data Sheet in accordance with HSNO

Printing date 13.09.2022

Version number 6

Revision: 13.09.2022

1 Identification of the substance or mixture and of the supplier · Product identifier Trade name: Low Fusing White Gold Solder (LFWG) · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. • Application of the substance / the mixture Dental alloy 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 Ltd. 12 Omega St, Rosedale, Auckland New Zealand Tel: + 64 9 914 9999 / Fax: + 64 9 914 9990 • Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com · Emergency telephone number: 0800 764 766 (National Poison Centre - 24 hours / 7 days) **2** Hazards identification · Classification of the substance or mixture Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. · Label elements · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS09 · Signal word Void

· Hazard statements

*Toxic to aquatic life with long lasting effects.* 

· Precautionary statements

Avoid release to the environment.

Collect spillage.

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.

(Contd. on page 2)

NZ

Printing date 13.09.2022

Version number 6

Revision: 13.09.2022

## Trade name: Low Fusing White Gold Solder (LFWG)

(Contd. of page 1)

25-50%

10-25%

• **vPvB:** Not applicable.

## 3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Dental alloy

• Dangerous components: CAS: 7440-22-4 silver

CAS: 7440-22-4 EINECS: 231-131-3

CAS: 7440-66-6 zinc powder -zinc dust (stabilized)

EINECS: 231-175-3 Aquatic Acute I, H400; Aquatic Chronic I, H410

• 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.

· 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.

(Contd. on page 3)

#### Version number 6

## Trade name: Low Fusing White Gold Solder (LFWG)

(Contd. of page 2)

#### 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/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/m<sup>3</sup>

- 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.

• Eye protection:

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

Information on basic physical and chemical properties						
· General Information	• •					
· Appearance:						
Form:	Solid					
Colour:	Grey					
· Odour:	Odourless					

Version number 6

Revision: 13.09.2022

## Trade name: Low Fusing White Gold Solder (LFWG)

	(Contd. of p	age
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point: Initial boiling point and boiling range	665 - 710 °C : 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: Upper:	Not determined. Not determined.	
Vapour pressure:	Not applicable.	
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with water:	Insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
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
- Specific symptoms in biological assay:
- Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Mechanical effects only.
- · Respiratory or skin sensitisation No sensitising effects known.

(Contd. on page 5)

NZ

Printing date 13.09.2022

#### Version number 6

Revision: 13.09.2022

## Trade name: Low Fusing White Gold Solder (LFWG)

(Contd. of page 4)

#### • 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.* 

#### **14 Transport information** · UN-Number · ADR/RID/ADN, ADN, IMDG, IATA Void · UN proper shipping name · ADR/RID/ADN, ADN, IMDG, IATA Void • Transport hazard class(es) · ADR/RID/ADN, ADN, IMDG, IATA · Class Void · Packing group · ADR/RID/ADN, IMDG, IATA Void • Environmental hazards: · Marine pollutant: No · Special precautions for user Not applicable. • Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: Product is not classified as a dangerous good for transport (ADR, IMDG, IATA). (Contd. on page 6)

Printing date 13.09.2022

#### Version number 6

Void

Revision: 13.09.2022

(Contd. of page 5)

HSR003077

## Trade name: Low Fusing White Gold Solder (LFWG)

· UN "Model Regulation":

## **15 Regulatory information**

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

•	New	Zealand	Inventory	of	Chemicals
---	-----	---------	-----------	----	-----------

CAS: 7440-22-4 silver

#### · HSNO Approval numbers

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 Void

- · Hazard statements
- Toxic to aquatic life with long lasting effects.
- · Precautionary statements
- Avoid release to the environment.

Collect spillage.

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 E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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

H400 Very toxic to aquatic life.

- H410 Very toxic to aquatic life with long lasting effects.
- · 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

(Contd. on page 7)

Printing date 13.09.2022

Version number 6

Revision: 13.09.2022

Trade name: Low Fusing White Gold Solder (LFWG)

(Contd. of page 6)

vPvB: very Persistent and very Bioaccumulative Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2