

Printing date 17.01.2023

Version number 7

Revision: 13.09.2022

1 Identification of the substance or mixture and of the supplier · Product identifier • Trade name: .615 Fine Solder · 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 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 3 H412 Harmful 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 Void
- · Signal word Void
- · Hazard statements
- Harmful to aquatic life with long lasting effects.
- · Precautionary statements
- Avoid release to the environment.

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.

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Chemical characteri Description: Dental		
Dangerous compone	ents:	
CAS: 7440-50-8 EINECS: 231-159-6	copper Aquatic Chronic 2, H411	10-25%
CAS: 7440-22-4 EINECS: 231-131-3	silver	10-25%
CAS: 7440-74-6 EINECS: 231-180-0	indium	2.5-10%
CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (stabilized) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<2.5%

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.
- If skin irritation continues, consult a doctor.
- · 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.
- Do not allow to enter sewers/ surface or ground water.
- 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/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: 7440-50-8 copper

WES Long-term value: 0.01 mg/m³

respirable dust, as Cu; Dermal sensitiser

CAS: 7440-22-4 silver

WES Long-term value: 0.1 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.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

• 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

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· 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).

Physical and chemical properties	
Information on basic physical and chem	ical properties
General Information	
Appearance:	
Form:	Solid
Colour:	Gold coloured
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	690 - 775 °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:	Not determined.
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.
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 Mechanical effects only.

· 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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 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		
· NZS/RID/ADN, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· NZŚ/RID/ADN, ADN, IMDG, IATA	Void	

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· Transport hazard class(es)	
· NZS/RID/ADN, ADN, IMDG, IATA · Class	Void
· Packing group · NZS/RID/ADN, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
Special precautions for user	Not applicable.
· Transport in bulk according to Annex II og 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

· New Zealand In	ventory of Chemicals	
CAS: 7440-50-8	**	
CAS: 7440-22-4	silver	
CAS: 7440-74-6	indium	
· HSNO Approval numbers		
CAS: 7440-50-8	copper	HSR002948
CAS: 7440-22-4	silver	HSR003077
CAS: 7440-74-6	indium	HSR003007
· GHS label eleme	ents	· · · · · · · · · · · · · · · · · · ·

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

· Hazard pictograms Void

· Signal word Void

• Hazard statements

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Avoid release to the environment.

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.

· 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.

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Relevant phrases	
H400 Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.	
H411 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 Co	oncerning 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	
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	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	