

**SAFETY DATA SHEET (GHS)**

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER****1.1 Product identifier:-**

**Product name:** HGPKF 1015 Y  
**Product number:** Void

**1.2 Other means of identification:-**

Not applicable.

**1.3 Recommended use of the chemical and restrictions on use:-**

Not applicable.

**Identified uses:**

Manufacture of dental prothesis  
 Dental alloy

**1.4 Details of the manufacturer and importer:-****Manufacturer:**

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

1- 5 Overseas Drive Noble Park North VIC 3174

Tel: + 61 3 9795 9599 Fax: + 61 3 9795 9645

Email: [info@ivoclarvivadent.com](mailto:info@ivoclarvivadent.com)

13 11 26

Poisons Hotline (24 hours / 7 days)

**1.5 Emergency phone number:****2. HAZARD(S) IDENTIFICATION****2.1 GHS Classification:-**

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

**2.2 GHS Label elements, including precautionary statements:-****Hazard Pictogram:**

Void

**Signal word:**

Void

**Hazard-determining components of labelling:**

Void

**Hazard statements:**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 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/INFORMATION ON INGREDIENTS

Mixture of substances listed below with nonhazardous additions.

Ingredient name	CAS No.	Classification	Concentration
silver	7440-22-4	substance with a Community workplace exposure limit	25-50%
platinum	7440-06-4	Ox. Sol. 2, H272	1-<2.5%
zinc powder -zinc dust (stabilized)	7440-66-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H4105	0.3-<1%

For the full text of the H-Statements mentioned in this Section, refer to Section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of necessary first aid measures:-

**If inhaled:**

Grinding dust: Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

**In case of skin contact:**

After contact with the molten product, cool rapidly with cold water. If skin irritation continues, consult a doctor.

**In case of eye contact:**

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

**If swallowed:**

Seek medical treatment.

#### 4.2 Symptoms caused by exposure:-

No further relevant information available.

#### 4.3 Medical attention and special treatment:-

No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing equipment:-

**Suitable extinguishing media:**

The product is not flammable.

**Unsuitable extinguishing media:**

No further relevant information available.

#### 5.2 Specific hazards arising from the substance/mixture/product:-

No further relevant information available.

#### 5.3 Special protective equipment and precautions for fire fighters:-

**Special personal protective equipment:**

Do not inhale explosion gases or combustion gases.

**Precautions:**

No further relevant information available

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:-

Not required.

#### 6.2 Environmental precautions:-

No special measures required.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and materials for containment and cleaning up:-

Pick up mechanically.

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**

**7.1 Precautions for safe handling:-**

Extractors are required on all machines used for thermal processing or splinter removal processes.

**7.2 Conditions for safe storage, including any incompatibilities:-**

No further relevant information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Exposure control measures:-**

**Occupational exposure limits:**

Component	CAS No.	Value	Parameters	Basis
Silver	7440-22-4	Long-term value: 0.1 mg/m <sup>3</sup>		
platinum	7440-06-4	Long-term value: 5 mg/m <sup>3</sup>		

**Ingredients with biological limit values:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Biological monitoring:-**

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.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

**8.3 Control banding:-**

Use good industrial hygiene practice and general ventilation.

**8.4 Engineering controls:-**

In case of intensive contact, wear protective gloves (EN 374).

Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn.

**8.5 Individual protection measures include PPE:-**

**Eye/face protection:**



**Safety glasses**

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling). Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.

**Skin protection:**



**Protective gloves**

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.

**Respiratory protection:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

**9. PHYSICAL/CHEMICAL PROPERTIES****9.1 Information on physical/chemical properties:-**

a)	<b>Appearance/Form:</b>	Solid	
b)	<b>Colour:</b>	Gold coloured	
c)	<b>Odour:</b>	Odourless	
d)	<b>Odour threshold:</b>	Not determined.	
e)	<b>pH value:</b>	Not applicable.	
f)	<b>Melting point/melting range:</b>	975 - 1035 °C	
g)	<b>Boiling point/boiling range:</b>	Undetermined.	
h)	<b>Flash point:</b>	Not applicable.	
i)	<b>Ignition temperature:</b>	Not determined.	
j)	<b>Self-igniting:</b>	Product is not self-igniting.	
k)	<b>Danger of explosion:</b>	Not determined.	
l)	<b>Upper/lower flammability or explosive limits:</b>	Lower	Not determined.
		Upper	Not determined.
m)	<b>Vapour pressure:</b>	Not applicable.	
n)	<b>Density at 20°C:</b>	Not determined	
o)	<b>Relative density:</b>	Not determined.	
p)	<b>Vapour density:</b>	Not applicable.	
q)	<b>Evaporation rate:</b>	Not applicable.	
r)	<b>Solubility in/miscibility with water:</b>	Insoluble.	
s)	<b>Partition coefficient: n-octanol/water:</b>	Not determined.	
t)	<b>Viscosity:</b>	Dynamic	Not applicable.
		Kinematic	Not applicable.
u)	<b>Solids content:</b>	Not determined.	

**10. STABILITY AND REACTIVITY****10.1 Reactivity:-**

No further relevant information available.

**10.2 Chemical stability:-**

Stable under normal handling and storage conditions.

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:-**

No dangerous reactions known.

**10.4 Conditions to avoid:-**

Protect from exposure to the light.

Keep away from heat and direct sunlight

**10.5 Incompatible materials:-**

No further relevant information available.

**10.6 Hazardous decomposition products:-**

None under normal conditions of storage and use.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:-

#### Acute toxicity / Values relevant for classification:

No further relevant information available.

#### Skin corrosion/irritation:

No irritant effect.

#### Serious eye damage/eye irritation:

Mechanical effects only.

#### Respiratory or skin sensitization:

No sensitising effects known.

#### Germ cell mutagenicity:

No further relevant information available.

#### Carcinogenicity:

No further relevant information available.

#### Reproductive toxicity:

No further relevant information available.

#### Specific target organ toxicity - single exposure:

No further relevant information available.

#### Specific target organ toxicity - repeated exposure:

No further relevant information available.

#### Aspiration hazard:

No further relevant information available.

#### Additional information:

Fumes or dusts generated from cutting or grinding may cause respiratory irritation.

### 11.2 Information on possible routes of exposure:-

#### Short Term (Acute) Exposure:

No further relevant information available.

#### Swallowed:

No further relevant information available.

#### Eyes:

No further relevant information available.

#### Skin:

No further relevant information available.

#### Inhaled:

No further relevant information available.

#### Long Term (Chronic) Exposure:

No further relevant information available.

#### Swallowed:

No further relevant information available.

#### Eyes:

No further relevant information available.

#### Skin:

No further relevant information available.

#### Inhaled:

No further relevant information available.

### 11.3 Early onset symptoms related to exposure:-

No further relevant information available.

### 11.4 Delayed health effects from exposure:-

No further relevant information available.

### 11.5 Exposure levels and health effects:-

No further relevant information available.

### 11.6 Interactive effects:-

No further relevant information available.

### 11.7 Other:-

No further relevant information available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:-

No further relevant information available.

### 12.2 Persistence/degradability:-

No further relevant information available.

### 12.3 Bioaccumulative potential:-

No further relevant information available.

### 12.4 Mobility in soil:-

No further relevant information available.

### 12.5 Other adverse effects:-

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Additional ecological information / General notes:-**

Generally not hazardous for water.

**12.6 Other adverse effects:-**

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority. Disposal must be made according to official regulations.

**13. DISPOSAL CONSIDERATIONS****13.1 Disposal methods:-**

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

Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION****UN number ADR / IMDG / IATA:-**

Void.

**UN proper shipping name or technical name:-****ADR:**

Void.

**IMDG, IATA:**

Void.

**Transport hazard class(es):**

Void.

**Label:**

Void.

**Packaging group:**

Void.

**Environmental hazards:**

Not applicable.

**Special precautions for user:**

Not applicable.

**Danger code:**

Void.

**EMS Number:**

Void.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

**Transport/Additional information:**

Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-**

The product is a medical device according to the Directive 93/42/EEC.

**15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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.

**16. OTHER INFORMATION****Key to abbreviations/acronyms used in SDS:-**

H272 May intensify fire; oxidiser.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Key literature references/data sources used to compile SDS:-**

Standard EN420:2003 General requirements for protective gloves: disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Personal eye protection - Eye and face protectors for occupational applications: safety glasses (Australian Standard AS 1336 and AS/NZS 1337.1:2010).

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**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.

GHS: Globally Harmonised System of Classification and Labelling of Chemicals.

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).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

Flam. Liq. 2: Flammable liquids, Hazard Category 2.

Flam. Liq. 3: Flammable liquids, Hazard Category 3.

Acute Tox. 4: Acute toxicity, Hazard Category 4.

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2.

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2.

Repr. 2: Reproductive toxicity, Hazard Category 2.

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3.

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2.

Asp. Tox. 1: Aspiration hazard, Hazard Category 1.

**\* Data compared to the previous version altered**

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Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

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