

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/06/2010

Reviewed on 05/06/2010

1 Identification of substance

- **Product details**
- **Trade name:** Bio Porta G, Porta REFLEX, Bio Portadur
- **Application of the substance / the preparation** Precious metall alloy for dental technology
- **Manufacturer/Supplier:**
Wieland Dental + Technik GmbH & Co.KG
Schwenninger Str. 13
75179 Pforzheim
Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959
- **Information department:**
Abteilung Umweltschutz
Marcus.Mueller@wieland-dental.de
- **Emergency information:**
+49 (07231)-37050
(Be kindly advised that this number can only be contacted at usual office hours.)

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Metal in compact form.

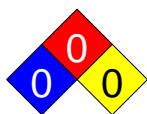
- **Dangerous components:**

7440-06-4	platinum	10-25%
7440-74-6	indium	≤ 1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

- **GHS label elements** Void
- **Additional information:** In compact form is this alloy not dangerous for human or the aquatic environment.

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** After contact with the molten product, cool rapidly with cold water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/06/2010

Reviewed on 05/06/2010

Trade name: Bio Porta G, Porta REFLEX, Bio Portadur

(Contd. of page 1)

- **After swallowing:** Seek immediate medical advice.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **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.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

7440-06-4 platinum

PEL	0.002 mg/m ³ soluble salts, as Pt
REL	1* 0.002** mg/m ³ *Metal **soluble salts, as Pt
TLV	1* 0.002** mg/m ³ *metal **soluble salts, as Pt

7440-74-6 indium

REL	0.1 mg/m ³ and compounds, as In
TLV	0.1 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves -**
- **Penetration time of glove material -**
- **Eye protection:** Safety glasses

USA

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/06/2010

Reviewed on 05/06/2010

Trade name: Bio Porta G, Porta REFLEX, Bio Portadur

(Contd. of page 2)

9 Physical and chemical properties

· General Information

Form:	Solid in various forms
Color:	Yellow
Odor:	Odorless

· Change in condition

Melting point/Melting range:	Bio Porta G: 1040 - 1110 °C
	Porta REFLEX: 1050 - 1130 °C
	Bio Portadur: 970 - 1070 °C

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Density:	Bio Porta G: 18,9 g/cm ³
	Porta REFLEX: 18,8 g/cm ³
	Bio Portadur: 18,2 g/cm ³

· **Solubility in / Miscibility with Water:** Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Additional ecological information:**
- **General notes:** Generally not hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation:** Contact manufacturer for recycling information.

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/06/2010

Reviewed on 05/06/2010

Trade name: Bio Porta G, Porta REFLEX, Bio Portadur

(Contd. of page 3)

- **Uncleaned packagings:**
- **Recommendation:**
Packaging can be reused or recycled after cleaning.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No

15 Regulations

- **Sara**

· Section 355 (extremely hazardous substances):
--

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):
--

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

7440-57-5	Gold
-----------	------

7440-06-4	platinum
-----------	----------

7440-74-6	indium
-----------	--------

7440-16-6	rhodium
-----------	---------

7440-33-7	tungsten
-----------	----------

7440-32-6	titanium
-----------	----------

7439-89-6	iron
-----------	------

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:
--

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
--

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenicity categories

· EPA (Environmental Protection Agency)
--

7440-66-6	zinc (in compact form)	II
-----------	------------------------	----

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)
--

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

7440-16-6	rhodium	A4
-----------	---------	----

· MAK (German Maximum Workplace Concentration)

7440-16-6	rhodium	3B
-----------	---------	----

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/06/2010

Reviewed on 05/06/2010

Trade name: Bio Porta G, Porta REFLEX, Bio Portadur

(Contd. of page 4)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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.

· Department issuing MSDS: Abteilung Umweltschutz**· Contact:** Herr Marcus Müller**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

USA