

# **Material Safety Data Sheet**

According 93/112/CE & 1907/2006/CE art 31.

Version : 2 Revision: 21.09.2019

\* Complete reissue of the version according to GHS regulations.

## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: SNF 0-1 Alloy N°: 7233

ID Device Identifier.: N7233 On the market since: 2001

## ----FOR PROFESSIONAL USE ONLY----

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

#### · Application of the substance / the mixture

Precious metal in solid, compact form for casting, crowns, bridges and superstructures in dental field. Only for professional use, supervised by a Dentist.

#### · 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PX DENTAL

Champs-Montants 16a CH-2074 Marin Switzerland 0041 32 924 21 20 pxdental@pxgroup.com

· Further information obtainable from: .

• 1.4 Emergency telephone number: Center of Toxicology / Zürich / Switzerland: 0044 251 51 51

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008 The substance is not classified, according to the CLP regulation.
- · 2.2 Label elements

Tél:

**Email** 

Labelling according to Regulation (EC) No 1272/2008
 Hazard pictograms
 Signal word
 Hazard statements

Void

 Void

• Additional information: EUH210 Safety data sheet available on request.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Chemical characterisation: Substances

N° CAS	EINECS	Description	Formule	%	Phrases "R"	Symbole de danger
7440-57-5	231-165-9	Gold	Au	61.9	N/A	N/A
7440-22-4	231-131-3	Silver	Ag	25	N/A	N/A
7440-06-4	231-116-1	Platinum	Pt		N/A	N/A
7440-05-3	231-115-6	Palladium	Pd	3.1	N/A	N/A
7439-88-5	231-095-9	Iridium	Ir	< 1.0	N/A	N/A
7440-18-8	231-127-1	Ruthenium	Ru		N/A	N/A
7440-16-6	231-125-0	Rhodium	Rh		N/A	N/A
7440-50-8	231-159-6	Cooper	Cu	9.5	N/A	N/A
7440-74-6	231-180-0	Indium	In	< 1.0	N/A	N/A
7440-66-6	231-175-3	Zinc	Zn		N/A	N/A
7440-31-5	231-141-8	Tin	Sn		N/A	N/A
7440-55-3	231-163-8	Gallium	Ga		N/A	N/A
7439-89-6	231-096-4	Iron	Fe		N/A	N/A
7439-96-5	231-105-1	Manganèse	Mn		N/A	N/A
7440-25-7	231-135-5	Tantalum	Ta		N/A	N/A
7440-03-1	231-113-5	Niobium	Nb		N/A	N/A
7440-42-8	231-151-2	Boron	В		N/A	N/A



#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact: Generally the product does not irritate the skin.

• After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: Seek immediate medical advice.

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- Protective equipment: No special measures required.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Only handle and refill product in closed systems.

- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information..

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

No special measures required.

Keep receptacles tightly sealed.

he usual precautionary measures are to be adhered to when handling chemicals.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

 $\boldsymbol{\cdot}$  Information about fire - and explosion protection: No special measures required.

## 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings .

Observe official regulations on storing packagings.

- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:



CAS	Description	Code	Valeur	Unit	Comments
7440-57-5	Gold	TLV-TWA		mg/m3	
7440-22-4	Silver	TLV-TWA	0.1	mg/m3	
7440-06-4	Platinum	TLV-TWA	1	mg/m3	
7440-05-3	Palladium	TLV-TWA		mg/m3	
7439-88-5	Iridium	TLV-TWA	0.2	mg/m3	
7440-18-8	Ruthenium	TLV-TWA		mg/m3	
7440-16-6	Rhodium	TLV-TWA		mg/m3	
7440-50-8	Cooper	TLV-TWA	1 / 0.2	mg/m3	Smoke / dust
7440-74-6	Indium	TLV-TWA	0.1	mg/m3	
7440-66-6	Zinc	TLV-TWA	5	mg/m3	smoke
7440-31-5	Tin	TLV-TWA	2	mg/m3	
7440-55-3	Gallium	TLV-TWA		mg/m3	
7439-89-6	Iron	TLV-TWA		mg/m3	
7439-96-5	Manganèse	TLV-TWA	0.2	mg/m3	
7440-25-7	Tantalum	TLV-TWA	5	mg/m3	dust
7440-03-1	Niobium	TLV-TWA		mg/m3	
7440-42-8	Boron	TLV-TWA		mg/m3	

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

· Respiratory protection:

When melting, soldering and mechanical processing: Do not inhale dust / smoke / mist.

Short term filter device: Filter P3

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire.

· Protection of hands:

Protective gloves and protective skin cream

Sensitization by the components in the glove materials is possible.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Prior to working with gloves the rubbing in with tanniferous skin-protecting agents for the avoidance of skin softening due to perspiration is recommended.

- $\hbox{\bf \cdot Material of gloves} \ Gloves \ recommended \ during \ refilling \\$
- 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: Goggles recommendedBody protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Ingot solid of  $\pm 1g$ Colour: Gold yellow-coloured

Odour:
 Odourless
 Odour threshold:
 pH-value:
 Not applicable.

· Change in condition

**Melting point/freezing point:** 865-930°C (1,589-1,706°F)

**Initial boiling point and boiling range:** >2000°C (3,632°F)
• **Flash point:** Not applicable.

• Flammability (solid, gas): Product is not flammable.

Decomposition temperature: Not determined.
 Auto-ignition temperature: Not determined.

• Explosive properties: Product does not present an explosion hazard.



· Explosion limits:

Lower:Not determined.Upper:Not determined.• Vapour pressure at 1400°C (2,552°F):Not applicable• Density at 20°C (68°F):14.3 g/cm³• Relative densityNot determined.• Vapour densityNot applicable.• Evaporation rateNot applicable.

· Solubility in / Miscibility with

water: Not determined.Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

• 9.2 Other information No further relevant information available.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions

Contact nitric acid releases toxic nitrogen oxide (NOx). Reacts with acids, alkalis and oxidizing agents.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11. Toxicological Information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and 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.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- 12.5 Results of PBT and vPvB assessment Not applicable.
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation Contact manufacturer for recycling information.
- Waste disposal key: The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
- Uncleaned packaging:
- · Recommendation:



Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself

Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

## **SECTION 14: Transport information**

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA Void

• 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

• 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

· 14.4 Packing group

· ADR, IMDG, IATA Void

• 14.5 Environmental hazards:

• Marine pollutant: Yes (PP)

• 14.6 Special precautions for user Not applicable.

• 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· IATA · Remarks:

· UN "Model Regulation": Void.

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- TSCA (Toxic Substances Control Act) Substance is listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- $\cdot \ National \ regulations:$
- · Water hazard class: Generally not hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out...

## **SECTION 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.

· Reasons for revise

If necessary, this safety data sheet can revised according to legal guidelines.

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PX DENTAL

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## Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (German regulation).

TRGS: Technische Regeln für Gefahrstoffe (German regulation)

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

PP: Severe Marine Pollutant

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

<sup>· \*</sup> Data compared to the previous version altered.