

Material Safety Data Sheet

This safety data sheet has been prepared in accordance with the requirements of EC Directive 1907/2006 (REACH), and provides information relating to the safe handling and use of the product.

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Extrusion eyelet

Gold 24 karat

Stainless steel 304

Material/ Component CAS Number % Weight

Alloying Elements

Carbon© 7440-44-0 0.08 max

Manganese (Mn) 7439-96-5 2.0 max

Phosphorous (P) 7723-14-0 0.045 max

Sulfur (S) 7704-34-9 0.030 max

Silicon (Si) 7440-21-3 2.0 max

Chromium (Cr) 7440-47-3 18.0-20.0

Nickel (Ni) 7440-02-0 8.0-12.0

Nitrogen (N) 7727-37-0 0.10 max

Base Metal Iron (Fe) 7439-89-6 Balance

Note: the above listing is a summary of elements used to alloy stainless steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

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

Dental clinics use only.

1.3 Details of the supplier of the MSDS

Gestenco International AB

Fridkullagatan 14

412 62 Gothenburg

(P.O. Box 24067, 400 22 Gothenburg)

Sweden

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Section 2: Hazard identification

2.1 Classification of the substance or mixture

Nota hazardous substance or mixture

2.2 Label elements

Labeling information (CLP):

Nota hazardous substance or mixture

2.3 Other hazards

Gold-none

Type 304 - Hazards Identification

Dust and fumes may be generated during working, e.g. during welding, cutting or grinding. Long term over-exposure to air pollutants in the form of dust or fumes may affect health and cause, for instance, chronic bronchitis.

Section 3: Composition/ information on ingredients

Main ingredient: Stainless steel 304

Gold 24 karat

3.2 Mixtures

None

Section 4: First aid measures

4.1 Description of first aid measures

Swallowed

Gold and 304 steel - Rinse mouth with water.

Inhalation

Check for clear airway, breathing and presence of pulse. If necessary, administer CPR. Consult a physician immediately

Skin contact

If skin irritation occurs - wash affected area with mild soap and water. Seek medical attention if skin irritation persists.

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Eye contact

Eye contact irritation: flush eyes with plenty of water for at least 15 minutes. Seek medical attention if eye irritation persists.

Indigestion

However, not determined for product in solid form dust may irritate mouth and gastrointestinal tract. If indigested, seek medical attention promptly -

4.2 The most important symptoms and effects, both acute and delayed

Stainless steel as sold and shipped is not likely to present an acute or chronic health effects. However, during processing (cutting, milling, grinding, melting and welding) emitted byproducts may cause irritations, difficulty in breathing, coughing or wheezing, may cause allergic skin reactions. Indication of immediate medical attention and special treatment needed, if necessary.

4.3. Indication of any immediate medical attention and special treatment

Notes to physician: May cause sensitization by skin contact or inhalation. Treat symptomatically.

| Section 5: Firefighting measures

5.1 Extinguishing media

Not flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials. Do not use water on molded metal.

5.2 Special hazards arising from the substance or mixture

N/A

5.3 Advice for firefighters

N/A. This product is not considered hazardous in its final solid form.

| Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

N/A

6.2 Environmental precautions

N/A

6.3 Methods and material for containment and cleaning up

N/A

6.4 Reference to other sections

None

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Section 7: Handling and storage

7.1 Precautions for safe handling

None

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions for stainless steel in solid state.

7.3 Specific end use(s)

Orthodontic treatments

Section 8: Exposure control/ personal protection

8.1 Control parameters

Gold: No special precautions required

Type 304: There are no exposure limits for stainless steel.

8.2 Exposure control

The exposure limit for iron-containing fumes has been established at 5 mg/m^3 with ACGIH's TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume.

Section: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---------------------------|------|
| Physical state: | Gold |
| Odor: | None |
| PH value | N/A |
| Boiling point (°C): | N/A |
| Flash point: | N/A |
| Vapor pressure: | N/A |
| Vapor pressure | N/A |
| Density | N/A |
| Viscosity | N/A |
| Explosive properties | N/A |
| Solubility in water: | N/A |
| Melting point | N/A |
| Flammability | N/A |
| Auto ignition temperature | N/A |
| Explosive limit | N/A |
| Evaporation rate | N/A |
| Oxidising properties | N/A |

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Type 304

| | |
|---------------------------|----------------------|
| Physical state: | Silver Grey Metallic |
| Odor: | None |
| PH value | NIA |
| Boiling point (°C): | NIA |
| Flash point: | NIA |
| Vapor pressure: | NIA |
| Vapor pressure | NIA |
| Density | NIA |
| Viscosity | NIA |
| Explosive properties | NIA |
| Solubility in water: | NIA |
| Melting point | NIA |
| Flammability | NIA |
| Auto ignition temperature | NIA |
| Explosive limit | NIA |
| Evaporation rate | NIA |
| Oxidising properties | NIA |

9.2 Other information

None

Section 10: Stability and reactivity

10.1 Reactivity

Gold NIA

Type 304 Not determined for product in solid form

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

NIA

10.4 Conditions to avoid

None

Type 304: Contact with mineral acids will release flammable hydrogen gas. Dust formation.

10.5 Incompatible materials

None

Type 304: Strong acids

10.6 Hazardous decomposition products

None

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Section 11: Toxicological information

11.1 General information about toxicity

N/A

Section 12: Ecological information

12.1 Toxicity

N/A

12.2 Persistence and degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4. Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

N/A

Section 13: Disposal considerations

13.1. Waste treatments methods

Waste handling of product:

Steel scrap should be recycled whenever possible

Waste handling of not cleaned packaging:

Dispose of in accordance with applied federal, provincial/ state or local regulations

Section 14: Transport information

14.1 ADR/RID

Not dangerous goods

14.2 TMDG:

Not dangerous goods

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14.3 IATA:

Not dangerous goods

14.4 Special precautions for user

No special precautions for user

Section 15: Regulatory information

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

This safety data sheet complies with the requirements of regulations above.

15.2 Chemical safety assessment

N/A

Section 16: Other information

Complete explanation for code abbreviations used in this document:

None

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is also intended to describe our products regarding safety requirements and not to guarantee any particular properties.



Göran Steen, 2020-11-27