

Material Safety Data Sheet according to (EC) 1907/2006		
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Section 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier
Name of product: Hinge system acc. Herbst

Product group:

UFI:

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

Manufacture of dental appliances

1.3 Details of the supplier of the safety data sheet
Manufacturer / Distributor

 SCHEU-DENTAL GmbH
 Am Burgberg 20
 D-58642 Iserlohn
 Tel. +49 (2374) 9288-0
 Fax +49 (2374) 9288-90

 eMail: service@SCHEU-DENTAL.com
 Internet: www.SCHEU-DENTAL.com

Section 2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified as hazardous according to Directive 1999/45/EC.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified as hazardous according to Regulation (EC) No. 1272/2008

2.2 Label elements

None

Hazard statements

H317	May cause an allergic skin reaction.
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Contains nickel.

2.3 Other hazards

Section 3. Composition / information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures
Chemical characterization

Not applicable

Chemical characterization
Designation: Stainless steel 1.4301 (Hinge system); X5CrNi18-10
 Stainless steel 1.4305 (hexagon screws; slotted screws); X8CrNiS18-9

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Components:

Description	CAS No	1.4301 Quantity	1.43105 Quantity
Carbon (C)	7440-44-0	≤ 0.07 %	≤ 0.10 %
Silicon (Si)	7440-21-3	≤ 1.00 %	≤ 1.00 %
Manganese (Mn)	7439-96-5	≤ 2.00 %	≤ 2.00 %
Phosphorus (P)	7723-14-0	≤ 0.045 %	≤ 0.045 %
Sulfur (S)	7704-34-9	≤ 0.015 %	≤ 0.15 – 0.35 %
Chromium (Cr)	7440-47-3	= 17.5 – 19.5 %	= 17.0 – 19.0 %
Nickel (Ni)	7440-02-0	= 8.0 – 10.5 %	= 8.0 – 10.0 %
Nitrogen (N)	7727-37-9	≤ 0.11 %	≤ 0.11 %
Copper (Cu)	7440-50-8		≤ 1.0 %
Iron (Fe)	7439-89-6	rest	rest

Section 4. First aid measures

4.1 Description of first aid measures

No information available.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Not applicable

Unsuitable extinguishing media

Not applicable

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Section 7. Handling and Storage

7.1 Precautions for safe handling

No special conditions required

Advice on protection against fire and explosion

7.2 Conditions for safe storage, including any incompatibilities

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Advice on storage compatibility

No special conditions required

7.3 Specific end use(s)

Dental applications

Further information on storage conditions

No special conditions required

Section 8. Exposure controls / personal protection

8.1 Control parameters

8.2 Exposure controls

Eye/face protection

Protective glasses

Hand protection

Protective gloves

Body protection

Wear suitable protective clothing at work.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General properties

Properties	Value
Physical state	solid
Colour	grey
Odour	odourless
Changes of state	
Melting point	1400 - 1450 °C
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Flammability solid	not applicable
Flammability gas	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Auto-ignition	not applicable
Decomposition temperature	not applicable
Vapor pressure	not applicable
Density	not applicable
Solubility in water	not applicable
Partition coefficient (log POW)	not applicable
Vapor density	not applicable
Evaporation rate	not applicable

9.2 Other information

Section 10. Stability and reactivity

10.2 Chemical stability

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No hazardous reactions by intended use.

10.3 Possibility of hazardous reactions**10.4 Conditions to avoid****10.5. Incompatible materials****10.6. Hazardous decomposition products**

No decomposition by intended use.

Section 11. Toxicological Information

11.1 Information on toxicological effects**Acute toxicity**

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause allergic skin reactions (nickel)

Sensitization is possible in predisposed persons.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic / mutagenic / toxic / effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

A biological evaluation was carried out for the material in accordance with DIN EN ISO 10993-1.

It meets the requirements regarding biocompatibility for medical devices.

Section 12. Ecological Information

12.1 Toxicity

A biological evaluation was carried out for the material in accordance with DIN EN ISO 10993-1.

It meets the requirements regarding biocompatibility for medical devices.

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.

12.5. Results of PBT and vPvB assessment

No further relevant information available.

12.6. Endocrine disrupting properties

No further relevant information available.

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12.7. Other adverse effects
No further relevant information available.

Further information

Section 13. Disposal considerations

13.1 Waste treatment methods

Advice on disposal
Dispose according to legislation.

Wastes Code product 17 04
Metals (including alloys)

Section 14. Transport Information

Land transport (ADR/RID)	
14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

Inland waterways transport (ADN)	
14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

Marine transport (IMDG)	
14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

Air transport (ICAO)	
14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

Section 15. Regulatory Information

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

National regulatory information

Additional Information

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15.2 Chemical Safety Assessment

Section 16. Other Information

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 Harmonized 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
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

Further information

The information in this safety data sheet is correct to the best of our knowledge, information and belief at the date of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Serious incidents in connection with the use of the product shall be reported immediately to the manufacturer (gmra@scheu-dental.com) and the competent authority.