

Trade name: Clasp wires

Current version: 1.0.0. issued: 22.11.2012 Replaced version: -. issued: -Region: GB

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

Product identifier

Trade name

Clasp wires

Wironit clasp wire (Ø: 0.6 mm) (REF: 48220)

Wironit clasp wire (Ø: 0.7 mm) (REF: 48250)

Wironit clasp wire (Ø: 0.8 mm) (REF: 48280)

Wironit clasp wire (Ø: 0.9 mm) (REF: 48310)

Wironit clasp wire (Ø: 1.0 mm) (REF: 48340)

Wironit clasp wire (semicircular, 0.65 * 1.3 mm) (REF: 48430)

Wironit clasp wire (semicircular, 0,75 * 1,3 mm) (REF: 48460)

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

Relevant identified uses of the substance or mixture

Manufacturing of dental prosthesis in a dental laboratory

Details of the supplier of the safety data sheet 1.3

Address

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str. 1 28359 Bremen

Telephone no. +49/421/2028 - 0 +49/421/2028 - 115 Fax no.

Information provided by / telephone

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 - 130 (Chief Development Officer alloys)

Advice on Safety Data Sheet

msds@bego.com

1.4 **Emergency telephone number**

For medical advice (in German and English): +49/551/192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

Carc.Cat.3; R40

R43

T: R48/23

2.2 Label elements

Labelling according to Directive 1999/45/EC

Hazard symbols





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Hazardous component(s) to be indicated on label, contains:

nickel

R phrases

40 Limited evidence of a carcinogenic effect.
43 May cause sensitisation by skin contact.

48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

S phrases

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

36/37 Wear suitable protective clothing and gloves.

Labelling information

In the form in which it is marketed, the product causes no danger to health for humans through inhalation, swallowing or contact with the skin. There is therefore no obligation to label the product in accordance with:

- regulation 1272/2008 (CLP: annex I; 1.3.4.: "Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers);
- directive 1999/45/EC (DPD), annex VII (preparations as specified by paragraph 9.3.of Annex VI to directive 67/548/EEC: "Alloys, preparations containing polymers, preparations containing elastomers").

2.3 Other hazards

If the product form in the as-supplied state is changed through further processing (e.g. through grinding, polishing, electrical discharge machining, welding or melting) and dust or vapours are produced, there may be danger from hazardous components in the product (see information in chapter 3).

PBT assessment

No data available.

vPvB assessment

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification 67/548/EEC	Concentration	%-b.w.
	REACH no			
1	nickel			
	7440-02-0	Carc.Cat.3; R40	< 30.00	%-b.w.
	231-111-4	R43		
	028-002-00-7	T; R48/23		
	-			
2	chromium			
	7440-47-3	-	< 30.00	%-b.w.
	231-157-5			
	-			
	-			

Full Text for all R-phrases: pls. see section 16

No	Note	Specific concentration limits
1	S, 7	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.



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After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Metal fire powders; Sand

Unsuitable extinguishing media

Water; Foam; Carbon dioxide; Dry chemicals

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Adapt extinguisher and fire-fighting measures to fire in the environment. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation. Do not inhale vapours. Avoid dust formation. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Collect contaminated water / firefighting water separately. Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid raising dust. When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages. Do not inhale vapours or dust.



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Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a well-ventilated place.

Requirements for storage rooms and vessels

No special measures required.

Advice on storage assembly

Do not store together with: explosive substances

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.
1	chromium	7440-47-3		231-157-5
	List of approved workplace exposure limits (WELs) / EH40			
	Chromium			
	TWA	0.5	mg/m³	
2	nickel	7440-02-0		231-111-4
	List of approved workplace exposure limits (WELs) / EH40			
	Nickel			
	TWA	0.1	mg/m³	
	Skin resorption / sensibilisation	Sk		-

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

In case of thermal processing, thermally insulating protective gloves are to be used. 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. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour				
solid				
white				
Odour				
odourless				
Odour threshold				
No data available				
pH value				
No data available				
Boiling point / boiling range				
No data available				
Melting point / melting range				
Value	appr.	1420	°C	
Decomposition point / decomposition range				
No data available				
Flash point				
No data available				
Auto-ignition temperature				
No data available				
Oxidising properties				
No data available				
Explosive properties				
No data available				
Flammability (solid, gas)				
No data available				
Lower flammability or explosive limits				
No data available				
Upper flammability or explosive limits No data available				
Vapour pressure No data available				
Vapour density No data available				
Evaporation rate No data available				
Relative density				
No data available				
Density			, ,	
Value		7.9	g/cm ³	
Solubility in water				
Remarks	insoluble			•



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Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

Possible hydrogen formation upon contact with acids.

10.4 Conditions to avoid

None, if handled according to order.

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral t	

No data available

Acute dermal toxicity

No data available

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of vapours in high concentration may cause metal fume fiever and may cause damage of the central nervous system in case of repeated and prolonged exposure. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract. Inhalation of metal-containing dusts may cause acute poisoning, leading to nausea, vomiting and abdominal pain. Extended exposition through inhalation of nickel dust and flue gas may lead to lesions, incl. fibrosis. Nickel contaminated dust that is transferred by the ambient air is considered cancer-causing when entering the depths of the respiratory tract. Metallic nickel and all its compounds may have a sensitising effect, in particular with persons with general proneness to allergies.



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SECTION 12: Ecological information

12.1 Toxicity

Fish toxicity	
No data available	

Daphnia toxicity No data available

Algae toxicity No data available

Bacteria toxicity No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
PBT assessment	No data available.		
vPvB assessment	No data available.		

12.6 Other adverse effects

No data available.

12.7 Other information

Other information	
Do not discharge product unmonitored into the environment.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



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SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

Restriction of occupation

Adhere to the national sanitary and occupational safety regulations when using this product.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

S This substance may not require a label according to Article 17 (see section 1.3 of Annex I)

(Table 3.1). This substance may not require a label according to Article 23 of Directive

67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

7 Alloys containing nickel are classified for skin sensitisation when the release rate of 0.5 µg

Ni/cm2/week, as measured by the European Standard reference test method EN 1811, is

exceeded.

Department issuing safety data sheet

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.