

Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

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

1.1 Product identifier

Trade name

- Clasp wires (REF 48220)
- Wironit clasp wire (Ø: 0.6 mm)
- Wironit clasp wire (Ø: 0.7 mm)
- Wironit clasp wire (Ø: 0.8 mm)
- Wironit clasp wire (Ø: 0.9 mm)
- Wironit clasp wire (Ø: 1.0 mm)
- Wironit clasp wire (semicircular, 0,65 * 1,3 mm)
- Wironit clasp wire (semicircular, 0,75 * 1,3 mm)
- 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 Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address

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

 Telephone no.
 +49/421/2028 - 0

 Fax no.
 +49/421/2028 - 115

 e-mail
 msds@bego.com

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 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP) Carc. 2; H351 Skin Sens. 1; H317 STOT RE 1; H372i

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0. issued: 13.06.2017

Region: GB

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



Signal word Danger

Hazardous component(s) to be indicated on label: nickel Hazard statement(s) H317 May cause an allergic skin reaction. H351 Suspected of causing cancer H372i Causes damage to organs through prolonged or repeated exposure if inhaled. Precautionary statement(s) P201 Obtain special instructions before use. P281 Use personal protective equipment as required. P302+P352 IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. P308+P313 P314 Get medical advice/attention if you feel unwell. P363 Wash contaminated clothing before reuse. Labelling information

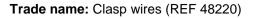
In the form in which it is marketed, the product causes no danger to health for humans through inhalation, swallowing or contact with the skin. There is therefore no obligation to label the product in accordance with: - regulation 1272/2008 (CLP: annex I; 1.3.4.: "Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers).

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.



Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

BEG

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 (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	chromium			
	7440-47-3	-	< 30.00	%-b.w.
	231-157-5			
	-			
	-			
2	nickel			
	7440-02-0	Carc. 2; H351	< 30.00	%-b.w.
	231-111-4	Skin Sens. 1; H317		
	028-002-00-7	STOT RE 1; H372**		
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*,**,****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	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.

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

Call 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

Current version : 3.0.1. issued: 08.08.2017

Page 4 of 10

Region: GB

5.3 Advice for firefighters

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

Replaced version: 3.0.0. issued: 13.06.2017

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 at the work 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.

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.



Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

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) / E	EH40	
	Chromium		
	TWA	0.5	mg/m³
	2006/15/EC		
	Chromium Metal, Inorganic Chromium (II) Compounds an	d Inorganic Ch	romium (III) Compounds (insoluble)
	TWA	2	mg/m³
2	nickel	7440-02-0	231-111-4
	List of approved workplace exposure limits (WELs) / E	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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour		
solid white		
white		
Odour		
odourless		

Current version : 3.0.1, issued: 08.08.2017

Region: GB

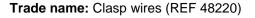
Odour threshold No data available pH value No data available Boiling point / boiling range No data available Melting point / melting range 1420 Value °C appr. Decomposition point / decomposition range No data available Flash point No data available Auto-ignition temperature No data available **Oxidising 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/cm³ Solubility in water Remarks insoluble Solubility(ies) No data available Partition coefficient: n-octanol/water No data available Viscosity No data available

Replaced version: 3.0.0, issued: 13.06.2017

9.2 Other information

Other information

No data available.



Current version : 3.0.1, issued: 08.08.2017

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

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

- **10.3 Possibility of hazardous reactions** Possible hydrogen formation upon contact with acids.
- **10.4 Conditions to avoid** None, if handled according to intended use.
- **10.5 Incompatible materials** Acids
- **10.6 Hazardous decomposition products** No hazardous decomposition products known.

SECTION 11: Toxicological information

particular with persons with general proneness to allergies.

11.1 Information on toxicological effects



Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acu	te)
-----------------------	-----

No data available

Toxicity to fish (chronic) No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

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.



Current version : 3.0.1. issued: 08.08.2017

Replaced version: 3.0.0, issued: 13.06.2017

Region: GB

BEG

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, please 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 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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	nickel	7440-02-0	231-111-4	27

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

Other regulations

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

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

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

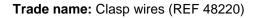
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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.

Current version : 3.0.1, issued: 08.08.2017





Replaced version: 3.0.0, issued: 13.06.2017

sections) H372	Causes damage to organs through prolonged or repeated exposure.
Notes relating to Annex VI)	the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008
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 µc Ni/cm2/week, as measured by the European Standard reference test method EN 1811, is exceeded.

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH. Prod-ID 627458