

# SAFETY DATA SHEET (EC 1907/2006)

## WIPTAM-WIRE

Version: 1.4 / GB  
Revision date: 26.09.2017  
Issue date: 28.01.2014  
replaces version: 1.3  
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Material no. 5425000307  
Specification 183074  
VA-Nr 01774354



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

#### 1.1. Product identifier

Trade name WIPTAM-WIRE  
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

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

Company DeguDent GmbH  
Postfach 1364  
D-63403 Hanau  
  
Telephone +49 (0)6181/59-5767  
Telefax +49 (0)6181/59-5879  
Email address SDB.Degudent-DE@dentsplysirona.com

#### 1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|  |            |      |
|--|------------|------|
| Respiratory sensitization                          | Category 1 | H334 |
| Skin Sensitisation                                 | Category 1 | H317 |
| Carcinogenicity                                    | Category 2 | H351 |
| Specific Target Organ Toxicity - Repeated exposure | Category 1 | H372 |

#### 2.2. Label elements

##### Labelling as per (EU) 1272/2008

##### hazard-defining component(s) (GHS)

- nickel
  - cobalt
- Hazard pictograms



Signal word Danger

Hazard statement  
H317 - May cause an allergic skin reaction.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 - Suspected of causing cancer.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statement  
P281 - Use personal protective equipment as required.  
P273 - Avoid release to the environment.  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.  
P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.

#### 2.3. Other hazards

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nickel oxide is released during processing., May react forming chromium(VI) compounds when processing thermally., Cobalt vapor will be released while processing., Limited evidence of a carcinogenic effect.

Possible release of metallic vapors when melted., Dusts and vapors: Do not inhale.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

-

### 3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

|   |           |        |           |            |      |
|---|-----------|--------|-----------|------------|------|
| <b>• cobalt</b> 40.0%                                 |           |        |           |            |      |
| CAS-No.   | 7440-48-4 | EC-No. | 231-158-0 |            |      |
| Respiratory sensitization                             |           |        |           | Category 1 | H334 |
| Skin Sensitisation                                    |           |        |           | Category 1 | H317 |
| Hazardous to the aquatic environment - Chronic Hazard |           |        |           | Category 4 | H413 |
| <b>• chromium</b> 20.0%                               |           |        |           |            |      |
| CAS-No.   | 7440-47-3 | EC-No. | 231-157-5 |            |      |
| <b>• nickel</b> 16.0%                                 |           |        |           |            |      |
| CAS-No.   | 7440-02-0 | EC-No. | 231-111-4 |            |      |
| Carcinogenicity                                       |           |        |           | Category 2 | H351 |
| Specific Target Organ Toxicity - Repeated exposure    |           |        |           | Category 1 | H372 |
| Skin Sensitisation                                    |           |        |           | Category 1 | H317 |
| <b>• iron</b> 14.0%                                   |           |        |           |            |      |
| CAS-No.   | 7439-89-6 | EC-No. | 231-096-4 |            |      |
| <b>• molybdenum</b> 7.3%                              |           |        |           |            |      |
| CAS-No.   | 7439-98-7 | EC-No. | 231-107-2 |            |      |
| <b>• manganese</b> 2.0%                               |           |        |           |            |      |
| CAS-No.   | 7439-96-5 | EC-No. | 231-105-1 |            |      |
| <b>• Silicium</b> < 1.0%                              |           |        |           |            |      |
| CAS-No.   | 7440-21-3 | EC-No. | 215-609-9 |            |      |

Texts of H phrases, see in Chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove to fresh air.

If symptoms persist, call a physician.

#### Skin contact

Wash off with soap and water.

In the case of skin irritation or allergic reactions see a physician.

#### Eye contact

Rinse with plenty of water.

If eye irritation persists, consult a specialist.

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### Ingestion

Clean mouth with water and drink afterwards plenty of water.  
Obtain medical attention.

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

##### Symptoms

No information available.

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

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Special powder against metal fire  
quenching powder  
dry sand  
common salt

Unsuitable extinguishing media: Water  
Carbon dioxide (CO<sub>2</sub>)

### 5.2. Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced: nickel oxides.

### 5.3. Advice for firefighters

The product itself does not burn.  
Extinction measures are to be adjusted to the specific location.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
In the event of fire, wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

Avoid dust formation.  
Avoid breathing dust.  
In case of dust being formed, provide for adequate extraction.  
Ensure suitable suction/aeration at the work place and with operational machinery.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment.  
Avoid dust formation.  
Fill into marked, sealable containers.

### 6.4. Reference to other sections

Wear personal protective equipment; see section 8.  
Disposal considerations; see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

In case of melting, soldering or grinding:  
Local ventilation.  
Avoid dust formation.  
Dusts and vapors: Do not inhale.  
In case of dust or vapor: Wear personal safety equipment  
No special measures are necessary if properly handled.

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**7.2. Conditions for safe storage, including any incompatibilities****Storage**

No special storage conditions required.

**German storage class**

13 - Non Combustible Solids

**7.3. Specific end use(s)**

We are unaware of any specific end uses which go beyond the data reported in Section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

|                    |                                   |        |   |
|--------------------|-----------------------------------|--------|---|
| • cobalt           |                                   |        |   |
| CAS-No.            | 7440-48-4                         | EC-No. | 231-158-0                                   |
| Control parameters | 0.1 mg/m3                         |        | Time Weighted Average (TWA):(EH40 WEL)      |
| • chromium         |                                   |        |   |
| CAS-No.            | 7440-47-3                         | EC-No. | 231-157-5                                   |
| Control parameters | 0.5 mg/m3                         |        | Time Weighted Average (TWA):(EH40 WEL)      |
| Control parameters | 2 mg/m3<br>Indicative             |        | Time Weighted Average (TWA):(EU ELV)        |
| • nickel           |                                   |        |   |
| CAS-No.            | 7440-02-0                         | EC-No. | 231-111-4                                   |
| Control parameters | 0.5 mg/m3                         |        | Time Weighted Average (TWA):(EH40 WEL)      |
| Control parameters | Can be absorbed through the skin. |        | Skin designation:(EH40 WEL)                 |
| • molybdenum       |                                   |        |   |
| CAS-No.            | 7439-98-7                         | EC-No. | 231-107-2                                   |
| Control parameters | 20 mg/m3                          |        | Short Term Exposure Limit (STEL):(EH40 WEL) |
| Control parameters | 10 mg/m3                          |        | Time Weighted Average (TWA):(EH40 WEL)      |
| • manganese        |                                   |        |   |
| CAS-No.            | 7439-96-5                         | EC-No. | 231-105-1                                   |
| Control parameters | 0.5 mg/m3                         |        | Time Weighted Average (TWA):(EH40 WEL)      |
| • Silicium         |                                   |        |   |
| CAS-No.            | 7440-21-3                         | EC-No. | 215-609-9                                   |
| Control parameters | 10 mg/m3                          |        | Time Weighted Average (TWA):(EH40 WEL)      |
| type of exposure   | Inhalable dust.                   |        |   |
| Control parameters | 4 mg/m3                           |        | Time Weighted Average (TWA):(EH40 WEL)      |
| type of exposure   | Respirable dust.                  |        |   |

**8.2. Exposure controls****Engineering measures**

nickel oxide is released during processing., In case of melting, soldering or grinding:, Adequate exhaustion / ventilation of the work site or machinery must be assured. Vacuuming of objects.

**Personal protective equipment****Respiratory protection**

In case of working with / without sufficient object exhaustion:, Respirator with P3 particle filter

**Hand protection**

Protective gloves

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Glove material butyl-rubber, Nitrile rubber, Natural Rubber/Natural latex (NR)

### Eye/face protection

Safety glasses with side-shields, In case of smoke or dust development: goggles

### Skin and body protection

If nickel oxide fumes occurs: Keep clothes separate. Change contaminated clothing., Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

### Hygiene measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used., Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work., Do not inhale smoke, dust, vapor., If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| Appearance                             |   |
| Form                                   | solid   |
| Colour                                 | white   |
| Odour                                  | odourless   |
| Odour threshold:                       | not applicable                                    |
| pH                                     | not applicable<br>(solid)                         |
| Melting point/range                    | 1450 - 1480 °C                                    |
| Boiling point/range                    | not applicable<br>(solid)                         |
| Flash point                            | not applicable                                    |
| Evaporation rate                       | No data available                                 |
| Flammability (solid, gas)              | not flammable                                     |
| Lower explosion limit                  | not applicable                                    |
| Upper explosion limit                  | not applicable                                    |
| Vapour pressure                        | not applicable                                    |
| Density                                | 8.3 g/cm3   |
| Water solubility                       | insoluble   |
| Partition coefficient: n-octanol/water | no data available                                 |
| Autoinflammability                     | Not capable of spontaneous combustion or heating. |
| Thermal decomposition                  | No data available                                 |
| Viscosity, dynamic                     | no data available                                 |
| Explosiveness                          | not applicable                                    |

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Oxidizing properties not oxidizing

### 9.2. Other information

Other information No further physicochemical data were determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Decomposition products occurring when heated above melting temperature  
metallic vapors

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute oral toxicity no data available

Acute inhalation toxicity no data available

Acute dermal toxicity no data available

Skin irritation no data available

Eye irritation no data available

Sensitization May cause sensitisation of susceptible persons by skin contact or by inhalation of dust., Allergic reactions caused by ions of cobalt and chromium are known. For none of the cobalt and chromium containing alloys of DeguDent a documented allergic reaction is known.

Repeated dose toxicity no data available

Mutagenicity assessment no data available

Carcinogenicity Test substance: nickel  
Suspected of causing cancer.

Toxicity to reproduction No data available

Human experience Toxic effects from handling this product are unknown as yet.

Further information No hazardous reactions are known if properly handled and stored.

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**SECTION 12: Ecological information****12.1. Toxicity**

*No ecotoxicological data is available for this product.*

**12.2. Persistence and degradability**

Biodegradability no data available

**12.3. Bioaccumulative potential**

Bioaccumulation no data available

**12.4. Mobility in soil**

Mobility The product is insoluble in water.  
No further information available

**12.5. Results of PBT and vPvB assessment**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**12.6. Other adverse effects**

Further Information Dusts and water-soluble forms of the alloy:, Introduction into soil, natural water bodies or sewerage must be prevented.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**SECTION 14: Transport information**

**Not dangerous according to transport regulations.**

- |                                     |    |
|-------------------------------------|----|
| 14.1. UN number:                    | -- |
| 14.2. UN proper shipping name:      | -- |
| 14.3. Transport hazard class(es):   | -- |
| 14.4. Packing group:                | -- |
| 14.5. Environmental hazards:        | -- |
| 14.6. Special precautions for user: | No |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH

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Regulation is required for this product.

**SECTION 16: Other information**

**Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)**

| Classification  | Classification procedure |
|---|--------------------------|
| Resp. sens., 1 , H334<br>Skin Sens., 1 , H317<br>Carc., 2 , H351<br>STOT RE, 1 , H372 |                          |

**Relevant H phrases from chapter 3**

H317 : May cause an allergic skin reaction.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 : Suspected of causing cancer.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
H413 : May cause long lasting harmful effects to aquatic life.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

**Legend**

|                  |   |
|------------------|---|
| <b>ADR</b>       | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| <b>ADN</b>       | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| <b>ASTM</b>      | American Society for Testing and Materials  |
| <b>ATP</b>       | Adaptation to Technical Progress  |
| <b>BCF</b>       | Bioconcentration factor   |
| <b>BetrSichV</b> | German Ordinance on Industrial Safety and Health  |
| <b>c.c.</b>      | closed cup  |
| <b>CAS</b>       | Chemical Abstract Services  |
| <b>CESIO</b>     | European Committee of Organic Surfactants and their Intermediates                               |
| <b>ChemG</b>     | German Chemicals Act  |
| <b>CMR</b>       | carcinogenic-mutagenic-toxic for reproduction   |
| <b>DIN</b>       | German Institute for Standardization  |
| <b>DMEL</b>      | Derived minimum effect level  |
| <b>DNEL</b>      | Derived no effect level   |
| <b>EINECS</b>    | European Inventory of Existing Commercial Chemical Substances                                   |
| <b>EC50</b>      | half maximal effective concentration  |
| <b>GefStoffV</b> | German Ordinance on Hazardous Substances  |
| <b>GGVSEB</b>    | German ordinance for road, rail and inland waterway transportation of dangerous goods           |
| <b>GGVSee</b>    | German ordinance for sea transportation of dangerous goods                                      |
| <b>GLP</b>       | Good Laboratory Practice  |
| <b>GMO</b>       | Genetic Modified Organism   |



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|              |  |
|--------------|--|
| <b>IATA</b>  | International Air Transport Association  |
| <b>ICAO</b>  | International Civil Aviation Organization  |
| <b>IMDG</b>  | International Maritime Dangerous Goods   |
| <b>ISO</b>   | International Organization For Standardization   |
| <b>LOAEL</b> | Lowest observed adverse effect level   |
| <b>LOEL</b>  | Lowest observed effect level   |
| <b>NOAEL</b> | No observed adverse effect level   |
| <b>NOEC</b>  | no observed effect concentration   |
| <b>NOEL</b>  | no observed effect level   |
| <b>o. c.</b> | open cup   |
| <b>OECD</b>  | Organisation for Economic Cooperation and Development  |
| <b>OEL</b>   | Occupational Exposure Limit  |
| <b>PBT</b>   | Persistent, bioaccumulative, toxic   |
| <b>PEC</b>   | Predicted effect concentration   |
| <b>PNEC</b>  | Predicted no effect concentration  |
| <b>REACH</b> | REACH registration   |
| <b>RID</b>   | Convention concerning International Carriage by Rail   |
| <b>STOT</b>  | Specific Target Organ Toxicity   |
| <b>SVHC</b>  | Substances of Very High Concern  |
| <b>TA</b>    | Technical Instructions   |
| <b>TPR</b>   | Third Party Representative (Art. 4)  |
| <b>TRGS</b>  | Technical Rules for Hazardous Substances   |
| <b>VCI</b>   | German chemical industry association   |
| <b>vPvB</b>  | very persistent, very bioaccumulative  |
| <b>VOC</b>   | volatile organic compounds   |
| <b>VwVwS</b> | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| <b>WGK</b>   | Water Hazard Class   |
| <b>WHO</b>   | World Health Organization  |