#### **WIPTAM-WIRE**

Page:

Version:2.0 / GBMaterial no.Revision date:03.12.2021SpecificationIssue date:28.01.2014VA-Nrreplaces version:1.4

1/10

Specification 183074 VA-Nr 01906948



#### 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)6181/59-5576 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 1B | H350  |
| Specific Target Organ Toxicity - Repeated exposure | Category 1  | H372  |
| Chronic aquatic toxicity                           | Category 4  | H413  |
| Reproductive toxicity                              | Category 1B | H360F |
| Germ cell mutagenicity                             | Category 2  | H341  |

#### 2.2. Label elements

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

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

- nickel
- cobalt

Hazard pictograms



#### WIPTAM-WIRE

Version: 2.0 / GB Material no. Revision date: 03.12.2021 Issue date: 28.01.2014

replaces version: 1.4 Page: 2/10 Specification 183074 01906948 VA-Nr



Signal word Danger

Hazard statement H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H372 - Causes damage to organs through prolonged or repeated exposure.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer. H360F - May damage fertility.

H413 - May cause long lasting harmful effects to aquatic life.

P281 - Use personal protective equipment as required. Precautionary statement

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.

Precautionary statement:

Prevention

P273 - Avoid release to the environment.

Precautionary statement: P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.

Reaction P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

Precautionary statement:

Storage

P405 - Store locked up.

Precautionary statement: Disposal

P501 - Dispose of contents/container in accordance with local regulation.

#### 2.3. Other hazards

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

| • cobalt           | 40.0%  |                              |                     |   |   |
|--------------------|--|------------------------------|---------------------|---|---|
| Skin Sensitis      | to the aquatic envi<br>outagenicity<br>eproduction | EC-No.<br>ironment - Chronic | 231-158-0<br>Hazard | Category 1 Category 1 Category 4 Category 2 Category 1B Category 1B | H334<br>H317<br>H413<br>H341<br>H360F<br>H350 |
|                    |  |                              |                     |   |   |
| • chromiui         | m  |                              | 20.0%               |   |   |
| • chromius CAS-No. | <b>m</b><br>7440-47-3                              | EC-No.                       | 20.0%<br>231-157-5  |   |   |
|                    |  | EC-No.                       |                     |   |   |

#### WIPTAM-WIRE

Page:

Version: 2.0 / GB Material no. Revision date: 03.12.2021 Specification Issue date: 28.01.2014 replaces version:

1.4 3/10 VA-Nr

183074 01906948



| Skin Sensitis | sation    |        |           | Category 1 | H317 |
|---------------|-----------|--------|-----------|------------|------|
| • iron        | 14.0%     |        |           |            |      |
| CAS-No.       | 7439-89-6 | EC-No. | 231-096-4 |            |      |
| • molybde     | num       |        | 7.3%      |            |      |
| CAS-No.       | 7439-98-7 | EC-No. | 231-107-2 |            |      |
| • mangane     | ese       |        | 2.0%      |            |      |
| CAS-No.       | 7439-96-5 | EC-No. | 231-105-1 |            |      |
| • Silicium    | < 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.

#### **Eve contact**

Rinse with plenty of water.

If eye irritation persists, consult a specialist.

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.

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

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

#### **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 (CO2)

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

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

#### Advice for firefighters 5.3.

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.

#### **WIPTAM-WIRE**

 Version:
 2.0 / GB

 Revision date:
 03.12.2021

 Issue date:
 28.01.2014

 replaces version:
 1.4

 Page:
 4 / 10

 Material no.

 Specification
 183074

 VA-Nr
 01906948



#### **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.

#### 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. Control parameters    | 7440-48-4<br>0.1 mg/m3 | EC-No. | 231-158-0<br>Time Weighted Average (TWA):(EH40 WEL) |
| Control parameters            | 0.02 mg/m3             |        | Time Weighted Average (TWA):(NZ OEL)                |
| Control parameters            | 0.02 mg/m3             |        | Time Weighted Average (TWA):                        |
| Control parameters            | 0.02 mg/m3             |        | Time Weighted Average (TWA):(KOR OEL)               |
| • chromium                    |                        |        |   |
| CAS-No.<br>Control parameters | 7440-47-3<br>0.5 mg/m3 | EC-No. | 231-157-5<br>Time Weighted Average (TWA):(EH40 WEL) |
| Control parameters            | 2 mg/m3<br>Indicative  |        | Time Weighted Average (TWA):(EU ELV)                |
| Control parameters            | 0.5 mg/m3              |        | Time Weighted Average (TWA):(NZ OEL)                |
| Control parameters            | 0.5 mg/m3              |        | Time Weighted Average (TWA):                        |
| Control parameters            | 0.5 mg/m3              |        | Time Weighted Average (TWA):(KOR OEL)               |

# SAFETY DATA SHEET (EC 1907/2006) WIPTAM-WIRE

2.0 / GB

Revision date: **03.12.2021**Issue date: 28.01.2014
replaces version: 1.4
Page: **5 / 10** 

Version:

 Material no.

 Specification
 183074

 VA-Nr
 01906948



| <ul><li>nickel</li></ul> |                     |                |   |
|--------------------------|---------------------|----------------|---|
| CAS-No.                  | 7440-02-0           | EC-No.         | 231-111-4                                   |
| Control parameters       | 0.5 mg/m3           |                | Time Weighted Average (TWA):(EH40 WEL)      |
| Control parameters       |                     |                | Skin designation:(EH40 WEL)                 |
|                          | Can be absorbed thr | ough the skin. |   |
| • 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

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

#### **WIPTAM-WIRE**

 Version:
 2.0 / GB

 Revision date:
 03.12.2021

 Issue date:
 28.01.2014

 replaces version:
 1.4

 Page:
 6 / 10

Material no.
Specification 183074
VA-Nr 01906948



pH not applicable

(solid)

Melting point/range 1450 - 1480 °C

Boiling point/range not applicable

(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/cm<sup>3</sup>

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

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

#### WIPTAM-WIRE

 Version:
 2.0 / GB

 Revision date:
 03.12.2021

 Issue date:
 28.01.2014

 replaces version:
 1.4

 Page:
 7 / 10

 Material no.

 Specification
 183074

 VA-Nr
 01906948



#### **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.

#### **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

#### WIPTAM-WIRE

Page:

Version:2.0 / GBMaterial no.Revision date:03.12.2021SpecificationIssue date:28.01.2014VA-Nrreplaces version:1.4

8/10

 Specification
 183074

 VA-Nr
 01906948



**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

Regulatione 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    |                          |  |
| Skin Sens., 1 , H317     |                          |  |
| Carc., 1B , H350         |                          |  |
| STOT RE, 1 , H372        |                          |  |
| Aquatic Chronic, 4, H413 |                          |  |
| Repr., 1B , H360F        |                          |  |
| Muta., 2 , H341          |                          |  |
|                          |                          |  |

#### 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.

H341 : Suspected of causing genetic defects.

H350 : May cause cancer.

H351 : Suspected of causing cancer.

H360F : May damage fertility.

H372 : Causes damage to organs through prolonged or repeated exposure.

H413 : May cause long lasting harmful effects to aquatic life.

**WIPTAM-WIRE** 

 Version:
 2.0 / GB

 Revision date:
 03.12.2021

 Issue date:
 28.01.2014

 replaces version:
 1.4

 Page:
 9 / 10

 Material no.

 Specification
 183074

 VA-Nr
 01906948



#### **Further information**

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

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Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

**ASTM** American Society for Testing and Materials

ATP Adaptation to Technical Progress

**BCF** Bioconcentration factor

**BetrSichV** German Ordinance on Industrial Safety and Health

**c.c.** closed cup

CAS Chemical Abstract Services

**CESIO** European Committee of Organic Surfactants and their Intermediates

ChemG German Chemicals Act

**CMR** carcinogenic-mutagenic-toxic for reproduction

**DIN** German Institute for Standardization

DMEL Derived minimum effect level
DNEL Derived no effect level

**EINECS** European Inventory of Existing Commercial Chemical Substances

EC50 half maximal effective concentration

**GefStoffV** German Ordinance on Hazardous Substances

GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous

goods

**GGVSee** German ordinance for sea transportation of dangerous goods

GLP Good Laboratory Practice
GMO Genetic Modified Organism

IATA International Air Transport Association
 ICAO International Civil Aviation Organization
 IMDG International Maritime Dangerous Goods
 ISO International Organization For Standardization

LOAEL Lowest observed adverse effect level

LOELLowest observed effect levelNOAELNo observed adverse effect levelNOECno observed effect concentration

NOEL no observed effect level

o. c. open cup

**OECD** Organisation for Economic Cooperation and Development

OEL Occupational Exposure Limit
PBT Persistent, bioaccumulative, toxic
PEC Predicted effect concentration
PNEC Predicted no effect concentration

**REACH** REACH registration

RID Convention concerning International Carriage by Rail

STOT Specific Target Organ Toxicity
SVHC Substances of Very High Concern

**TA** Technical Instructions

**TPR** Third Party Representative (Art. 4)

### **WIPTAM-WIRE**

Page:

2.0 / GB Version: Material no. Revision date: 03.12.2021 28.01.2014 Issue date: VA-Nr replaces version: 1.4 10 / 10

Specification 183074 01906948



**TRGS** Technical Rules for Hazardous Substances VCI German chemical industry association vPvB very persistent, very bioaccumulative

VOC volatile organic compounds

**VwVwS** German Administrative Regulation on the Classification of Substances Hazardous to

Waters into Water Hazard Classes

WGK Water Hazard Class WHO World Health Organization