Safety data sheet according to Annex II of Regulation (EC) 1907/2006 (REACH)		EUKAMED	
Date: 03.04.2023	Document: cocr 056 e-05	Revision: 05	replaces version 04 from 15.11.2022

1. Identification of the substance/mixture and of the company /undertaking

1.1. Product identifier / trade name Laser welding wire CoCr

Article no. / REF: 151002, 151005, 151008, 151011, 152250, 152350,

152500,153500.

No UFI has been assigned to this mixture

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

Application of the substance / the mixture Dental alloys containing cobalt that can be as additional material

in the manufacture of fixed or mobile dental prostheses in the dental

laboratory.

User: trained specialist (dental technician, dentist)

No further information

1.3. Details of the supplier of the safety data sheet

EUKAMED OHG

Cranachstr. 44D-42549 Velbert

1.4. Emergency phone number: EUKAMED OHG, D-42549 Velbert: +49 2051 319405

2. Hazards identification

2.1. Classification of the substance or mixture

Hazard categories: Classification according to Regulation (EU) No 2020/217

Carcinogenicity: Carc.1B H350 May cause cancer by inhalation
Genetic Toxicity Muta 2 H341 May cause genetic defects

Reproductive toxicity Repr 1B H360F May impair fertility.

Respiratory sensitization Resp. Sens.1 H334 Inhalation may cause allergy, asthma-like symptoms

or Cause breathing difficulties

Skin sensitization Skin.Sens1 H317 Can cause allergic skin reactions
Hazardous to the aquatic envir.t Aquatic Chronic 4 H413 May be harmful to aquatic organisms,

with long-term effect.

2.2. Label elements according to Regulation (EU) No 2020/217

Hazard pictogram



GHS08

Signal word: Danger

Hazard-determining component(s) for labelling:

Cobalt

The following hazard statements do not refer directly to the product, but to the dusts or vapors that may be generated during use and processing.

2.3. Other hazards and notes on labelling.

The product, as a cobalt-chromium alloy, in the form in which it is placed on the market, does not present any risk to human health. A label is not required for this product according to Regulation (EC) 1272/2008 (CLP), Annex I section 1.3.4. (Metals in compact form, alloys...).

3. Composition/information on ingredients

3.1. Substances

The product is not a substance but a mixture.

3.2 This alloy is a mixture of

 Ingredients
 Part %.
 CAS-No
 EG/ Index
 Hazard category
 H-phrases

 Cobalt
 50-70
 7440-48-4
 231-158-0
 Carc. 1B
 H350

 Muta. 2
 H341

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 Repr. 1B
 H360F

 Resp. Sens. 1
 H334

 Skin. Sens. 1
 H317

 Aquatic Chronic 4
 H413

 Chrome
 19-30
 7440-47-3
 231-157-5

 Mo
 4-7
 7439-98-7

 Mn
 1
 7439-96-5

4. First aid measures

4.1 Description of first aid measures

General information Do not inhale gas/fume/vapor/aerosol

In case of allergic symptoms, especially in the respiratory tract, seek

medical advice immediately.

After inhalation Provide fresh air, remove the patient from the danger zone, in case of

intensive inhalation of vapors consult a doctor immediately

After skin contact Wash off dusts with soap and water.

After contact with melted product, quickly cool the affected skin area with water.

After eye contact remove contact lenses, keep eyelids open, rinse dust with water, if

necessary consult an ophthalmologist.

After ingestion: Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

no information available.

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

no information available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media the product itself does not burn, adapt extinguishing measures to

the surroundings, metal burning powder, sand.

Unsuitable extinguishing media Water, foam, carbon dioxide, dry extinguishing media

5.2 Special hazards arising from the substance or mixture:

No information available.

5.3 Advice for firefighting

Adapt self-contained breathing apparatus, extinguishing agents and fire-fighting measures to the environment of the fire.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure sufficient fresh air, avoid dust formation, observe the protective regulations in sections 7), 8).

Task forces

no information available

6.2. Environmental precautions:

Retain extinguishing water, do not allow to enter sewage system. Do not allow to enter the subsoil / soil.

6.3. Methods and material for containment and cleaning up.

Pick up mechanically, avoid dust formation, treat the picked up material according to section "Disposal".

6.4. Reference to other sections

Safe handling: see section 7

Personal protective equipment, see section 8

Disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling

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Updated taking in to account the Regulation (EU) No 2020/878 of 06.2020.

Information for safe handling Ensure sufficient room ventilation and use dust extraction at the workplace.

Observe general protection and hygiene measures at the workplace,

wash hands before breaks and at the end of work.

Do not smoke, eat or drink while working.

Keep away from food. Do not inhale vapors and dust.

7.2 Conditions for safe storage including any incompatibilities.

Keep container tightly closed, ventilate room well.

Requirements for storage rooms and containers
No special measures,

do not store near explosive substances

7.3 **Specific end uses** no information.

8. Exposure controls / personal protection

8.1. **Control Parameters**No special requirements.

Occupationnel exposure limit values (TRGS 900)

Chromium 2E mg/m³
Cobalt, acceptance concentration0 0.0005 mg/m³

8.2. Exposure controls:

Exposer and monitoring measures: Inhalation of grinding and polishing dusts and fumes from melting and welding.

avoid, ensure sufficient ventilation/extraction at the workplace

Technical measures: Use suitable dust extraction during grinding work

Personal protective equipment: Use suitable dust extraction during grinding work, resp.

Wear dust masks

Skin protection: Protective gloves
Eye protection: Safety goggles

Body protection: Protective gloves, suitable protective clothing.

Observe general protection and hygiene measures at the workplace,

wash hands before breaks and at the end of work.

Do not smoke, eat or drink while working.

Keep away from food. Do not inhale vapors and dust.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

State of aggregation:SolidColor:Silver greyOdor:OdorlesspHNo data.

Changes of state

Boiling point no data available

Melting point/range 1250 -1400 °C

Flash point: no data

Flammability: non-flammable
Self-flammability: non-flammable
Explosion hazard: no information
Vapor pressure: no data

Relative density: 8.4 g/cm³

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Water solubility No test required,

as the substance is known to be insoluble in water.

Viscosity No data

9.2. Other information No information available

10. Stability and reactivity

10.1. Reactivity

no reactions are to be expected when used as intended

10.2. Chemical stability

no reactions are to be expected if the storage and handling instructions are followed

10.3. Possibility of hazardous reactions

in contact with acids, the formation of gases is possible.

10.4. Conditions to be avoid

no information.

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

Hazardous decomposition products in contact with acids

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

oral toxicity

No data available

Acute dermal toxicity

No data available

Corrosive/irritant effect on the skin

No data available

11.2 Information on other hazards

Delayed and immediate effects and chronic effects after short or prolonged exposure Inhalation of product vapors at high The product, as a cobalt-chromium alloy, in the form in which it is placed on the market, does not present any risk to human health.

12. Ecological information

12.1. Toxicity

Fish toxicity

No data available

Fish toxicity chronic

No data available

Total no data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

no information available

12.4. Mobility in soil

no information available

12.5. Results of the PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7 Other adverse effects no information available

Do not allow products to enter the environment in an uncontrolled manner.

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13. Disposal considerations

13.1 Waste treatment methods

Product:

The assignment of a waste code number in accordance with the European Waste Catalogue (AVV) is to be carried out in consultation with the local / regional waste disposal company

Packing

the packaging must be emptied of all residues and must be disposed of properly in accordance with the statutory regulations. Packaging that cannot be emptied must be disposed of in consultation with the local / regional waste disposal company.

14. Transport information

14.1 UN Number or ID number

No dangerous goods in the sense of the known regulations

14.5 Environmental hazards

Hazardous to the environment? No

14.6 Special precautions for the user?: no special measures eequired

14.7. Other relevant information

No dangerous goods in the sense of the known regulations

15. Regulatory information

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

Specific regulatory action for the substance or mixture related to cobalt (main constituent of cobalt alloy)

EU regulations

The alloy complies with ISO 22674, it has been used for many years without any particular problems as a row-material for the manufacture of fixed and removable dentures.

Additional hints

A special label is not required for the product according to section 1.3.4 of Annex I of the CLP Regulation.

National regulations

Water hazard class:

not hazardous to water

Substances that are carcinogenic, mutagenic or toxic to reproduction (TRGS905) Cobalt metal (in the form of inhalable dusts / aerosols) 1B, M-, RF-, RD

The product, as a cobalt-chromium alloy, in the form in which it is placed on the market, does not present any risk to human health.

15.2 Chemical Safety Assessment

No chemical safety assessment is required for this mixture.

16. other information

Data sources used to create the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) and Regulation (EU) 2020/878 (REACH), as amended.

The alloy complies with DIN EN ISO 22674, it has been used for many years without any particular problems as a pre-material for the production of fixed or removable dentures.

The product, as a cobalt-chromium alloy, in the form in which it is placed on the market, does not present a hazard to human health.

Wording of H-phrases (number and full text) NOT ALL phrases are relevant for this product!

H302 Harmful if swallowed.

H317 May cause allergic skin reactions. H319 Causes severe eye irritation.

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H334 May cause allergy, asthma-like symptoms or breathing difficulties if inhaled.

H341 May cause genetic defects.
H350i May cause cancer by inhalation.

H360F May impair fertility.
H361f Suspected to impair fertility.

H413 May be harmful to aquatic life with long lasting effects.

Changes to the previous version:

Adaptation of the section description to Regulation (EU) 2020/878, minor insignificant text adjustments.

Further information

The information is based on the current state of our knowledge and refers to the product as delivered. They are intended to describe our products with regard to safety requirements and therefore do not have the meaning of guaranteeing specific properties.

The information is intended to give you guidance on the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal.

The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or undergoes treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.