according to Annex II of Regulation (EC) 1907/2006 (REACH)



replaces version 04 from 15.11.2022

Page 1 of 6 Date of issue: 03.04.2023 Version: 05 Printing date: 21.04.2023

Laser welding wire

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

Product identifier

Commercial product name: No UFI has been assigned to this mixture

Laser welding wire

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)

1.3 Details of the supplier of the safety data sheet

> Manufacturer: EUKAMED OHG. Street / mailbox: Cranachstr.44 Country code. / postal code / city: DE-42549 Velbert +49 (0) 2051 319404 Phone: Fax: +49 (0) 2051 319406

E-mail / Website: info@eukamed.de / www.eukamed.de

SILADENT Dr. Böhme & Schöps GmbH Supplier:

Street / mailbox: Im Klei 26

Country code. / postal code / city: DE - 38644 Goslar

Phone: Tel.: +49 (0) 53 21 / 37 79 - 0 Fax: +49 (0) 53 21 / 38 96 32 Fax: E-mail / Website: info@siladent.de - www.siladent.de

1.4 **Emergency telephone number:** +49 (0) 2051 319404

SECTION 2: Hazards identification

Classification in accordance with regulation (EC) No 1272/2008 (CLP):

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

Carc.1B H350 May cause cancer by inhalation Carcinogenicity: 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 May be harmful to aquatic organisms, with long-Aquatic Chronic 4 H413

term effect. aquatic environment

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



GHS08

Signal word: Danger

Hazard-determining component(s) for

labelling:

Cobalt

according to Annex II of Regulation (EC) 1907/2006 (REACH)



Page 2 of 6

Printing date: 21.04.2023

replaces version 04 from 15.11.2022

Date of issue: 03.04.2023 Version: 05

Laser welding wire

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...).

SECTION 3: Composition/information on ingredients

3.1	Substances	The product is not a substance but a mixture

3.2	Thic	allav ia	a mixture	~f
J.Z	11115	aliuv is i	a iiiixture	UI

inis alloy is	a mixture	OT			
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
				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			

SECTION 4: First aid measures

Mn

4.1	Description	of firet	aid	maggurag

General information:

Do not inhale gas/fume/vapour/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 vapours consult a doctor

immediately.

After skin contact: Wash off dusts with soap and water.

7439-96-5

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media: The product does not burn.

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

according to Annex II of Regulation (EC) 1907/2006 (REACH)



replaces version 04 from 15.11.2022

Page 3 of 6 Date of issue: 03.04.2023 Version: 05 Printing date: 21.04.2023

Laser welding wire

5.2 Special hazards arising from the

substance or mixture:

No information available.

5.3 Advice for firefighters: Adapt self-contained breathing apparatus, extinguishing

agents and fire-fighting measures to the environment of the

fire.

SECTION 6: Accidental release measures

Personal precautions, protective

equipment and emergency procedures:

Task forces:

Ensure sufficient fresh air, avoid dust formation, observe the

protective regulations in sections 7), 8).

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

SECTION 7: Handling and storage

Precautions for safe handling

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 vapours and dust.

7.2 Conditions for safe storage including any incompatibilities

Requirements for storage rooms and

containers:

No special measures,

do not store near explosive substances

7.3 Specific end uses: no information.

SECTION 8: Exposure controls/personal protection

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

Occupationnel exposure limit values (TRGS 900)

Chromium: 2E mg/m³ Cobalt, acceptance concentration: 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

according to Annex II of Regulation (EC) 1907/2006 (REACH)



replaces version 04 from 15.11.2022

Page 4 of 6 Date of issue: 03.04.2023 Version: 05 Printing date: 21.04.2023

Laser welding wire

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 vapours and dust.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

State of aggregation: Solid Colour: Silver grey Odour: Odourless ph: No 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 Vapour pressure: no data Relative density: 8.4 g/cm3

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

SECTION 10: Stability and reactivity

No reactions are to be expected when used as intended. 10.1 Reactivity:

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

SECTION 11: Toxicological information

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.

Information on other hazards

Delayed and immediate effects and chronic effects after short or prolonged

exposure:

Inhalation of product vapours 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.

according to Annex II of Regulation (EC) 1907/2006 (REACH)



Page 5 of 6

Printing date: 21.04.2023

replaces version 04 from 15.11.2022

Date of issue: 03.04.2023 Version: 05

Laser welding wire

SECTION 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.

SECTION 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

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.

SECTION 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 required.

14.7 Other relevant information: No dangerous goods in the sense of the known regulations.

SECTION 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

according to Annex II of Regulation (EC) 1907/2006 (REACH)



Page 6 of 6

Printing date: 21.04.2023

replaces version 04 from 15.11.2022

Date of issue: 03.04.2023 Version: 05

Laser welding wire

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

15.2 Chemical Safety Assessment:

any risk to human health.

No chemical safety assessment is required for this mixture.

SECTION 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!

Harmful if swallowed. H302

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

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

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.