

Printing date: 06.04.2017

according to Regulation (EC) No. 2015/830

Date of issue: 03.04.2013

Date of revision: 09.02.2016 / Version: 2.0

Special Solder CoNiCr nickel-containing, 1mm

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

1.1 Product identifier

Tradename: Special Solder CoNiCr nickel-containing, 1mm

Product description: Nickel alloy

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

Relevant identified uses: Manufacturing of dental prosthesis in dental laboratories

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: ERNST HINRICHS Dental GmbH

 Street / mailbox:
 Borsigstr. 1

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

 Phone:
 0 53 21 / 5 06 24

 Fax:
 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de

Further information obtainable from: ERNST HINRICHS Dental GmbH

1.4 Emergency telephone number

ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. - 4 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Skin Sens. 1 H317 May cause an allergic skin reaction.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life

Special hazards information No information available.

for human and environment:

2.2 Label elements

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

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).

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 product.

Hazard pictograms:

GHS07

GHS08

Signal word: Danger Hazard-determining components of Nickel

labelling:

Hazard statements:

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.

Precautionary statements:

P201: Obtain special instructions before use.

P280: Wear protective gloves/protective/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water and soap.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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P308 + P313: IF exposed: Call a POISON CENTER or doctor/physician. If experiencing respiratory symptoms: Call a doctor. P362 + P364: Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances Not applicable

3.2 Mixtures

Description: alloy

Dangerous components:

CAS-No.7440-48-4	Cobalt	52%
EC-No. 231-158-0	Skin Sens. 1; H317; Resp. Sens. 1; H334; Aquatic Chronic 4;	
Index: 027-001-00-9	H413	
CASCAS-No.7440-02-0	Nickel	21%
EC-No. 231-111-4	Skin Sens. 1; H317; Carc. 2; H351; STOT RE 1; H372	
Index: 028-002-007		
CAS: 7440-47-3	Chromium	20%
EINECS: 231-157-5	Not classified	

Additional information:

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

After inhalation: In case of unconsciousness bring patient into stable side

position for transport. Supply fresh air.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist, consult doctor.

After swallowing: Rinse mouth. Drink plenty of water as a precaution. Get

medical advice/attention.

4.2 Most important symptoms and effects,

both acute and delayed:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer (inhalation). Causes damage to organs

through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Metal fire powders, Sand Water, Foam, CO₂ extinguishing agents:

5.2 Special hazards arising from the

substance or mixture:

No additional information available.

5.3 Advice for firefighters Do not inhale explosion gases or combustion gases.

Protective equipment: Wear self-contained breathing apparatus.

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Special Solder CoNiCr nickel-containing, 1mm

Dispose of fire debris and contaminated firefighting water in

accordance with official regulations.

Collect contaminated firefighting water separately. It must

not enter drains.

SECTION 6: Accidental release measures

Personal precautions, protective Wear protective equipment. Keep unprotected persons equipment and emergency procedures:

away. Ensure adequate ventilation. Avoid dust formation. Use breathing protection against the effects of dust.

Do not allow to enter drainage system, surface or ground 6.2 Environmental precautions:

water. Inform respective authorities in case product reaches

water or sewage system.

Take up mechanically and collect in suitable container for 6.3 Methods and material for containment and

cleaning up:

disposal. Send for recovery or disposal in suitable

containers.

See Section 7 for information on safe handling 6.4 Reference to other sections:

See Section 8 for information on personal protection

equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Do not

inhale dust.

Information about protection against

explosions and fires:

Dust can form an explosive mixture with air. Avoid formation

of dust.

Hygiene measures: When handling the product, ensure good industrial hygiene

and adequate safety precautions. Do not eat, drink or smoke at work. Before eating, drinking, smoking and leaving the workplace, wash hands and other bares areas with mild soap and water. Do not wear contaminated clothing outside

the workplace.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store cool and dry in tightly closed containers.

Storage incompatibility: Keep away from food, drinks and feedingstuff. Do not store

together with explosive substances.

Storage class: 10-13

No further relevant information available. 7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

Control parameters

Components with critical value	es that require monitoring at	the workplace:
Substance name	CAS no.	EC no.
Cobalt	7440-48-4	231-158-0
List of approved workplace ex Cobalt	posure limits (WELs) / EH40)

TWA 0.1 mg/m³

7440-47-3 231-157-5 Chromium

List of approved workplace exposure limits (WELs) / EH40

Chromium

TWA 0.5 mg/m³



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Date of revision: 09.02.2016 / Version: 2.0

Special Solder CoNiCr nickel-containing, 1mm

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nickel 7440-02-0 231-111-4

List of approved workplace exposure limits (WELs) / EH40

Nickel

TWA: 0.1 mg/m³

Skin resorption/sensibilisation: Sk

8.2 Exposure controls:

Appropriate engineering controls: Ensure adequate ventilation so that concentrations do not

exceed the applicable standard values.

Personal protective equipment:

Protection of hands: Wear suitable gloves. The glove material has to be

impermeable and resistant to the product/ the substance/

the preparation.

Material of gloves: Latex, Nitrile rubber (> 0.1 mm)

Penetration time of glove material: The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be

observed.

Eye protection: Tightly sealed safety glasses (EN 166).

Breathing equipment: In case of dust formation or inadequate ventilation wear

respiratory protection. Breathing apparatus with filter P. Not

necessary if room is well-ventilated.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Solid
Physical state: Solid
Colour: metallic

Odour: No data available
Odour threshold: No data available
pH: No data available

Melting point/Freezing point 1240 °C

Boiling point/Boiling range:

Flash point:

Flammability (solid, gas):

No data available

No data available.

Auto-ignition temperature: Product is not self-igniting.

Decomposition temperature: No data available Oxidising properties No data available

Explosive properties: Product is not explosive. However, during processing

formation of explosive dusts is possible.

Explosive Limits:

Lower:

Upper:

Vapour pressure at 20 °C:

Density at 20 °C:

Relative density:

Vapour density:

Vapour density:

Vapour density:

No data available

No data available

No data available

No data available.

No data available.

Solubility: Insoluble.

Partition coefficient (n-octanol/water): No data available

Viscosity:

dynamic: No data available

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Date of revision: 09.02.2016 / Version: 2.0

Special Solder CoNiCr nickel-containing, 1mm

No data available kinematic:

9.2 No further relevant information available. Other information

SECTION 10: Stability and reactivity

10.1 Reactivity Under normal conditions of use no dangerous reactions

known.

10.2 Chemical stability

Thermal decomposition / conditions to be

avoided:

Stable under recommended storage and application conditions according to part 7. No decomposition if used

according to specifications.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

Possible hydrogen formation upon contact with acids.

None, if handled according to intended use.

Acids.

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Not classified Acute toxicity: Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not

May cause allergy or asthma symptoms or breathing Respiratory or skin sensitisation:

difficulties if inhaled. May cause an allergic skin reaction.

Not classified Germ cell mutagenicity:

Based on available data, the classification criteria are not

met.

Carcinogenicity: May cause cancer (inhalation).

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not

met.

Specific target organ toxicity (single

exposure):

Based on available data, the classification criteria are not

Specific target organ toxicity (repeated

exposure):

Aspiration hazard:

Causes damage to organs (Respiratory tract) through

prolonged or repeated exposure (inhalation).

Not classified

Not classified

Based on available data, the classification criteria are not

Potential adverse human health effects

and symptoms:

Inhalation of vapours in high concentration may cause metal fume fever and may cause damage of the central nervous system in case repeated and prolonged exposure. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract. Inhalation of metal-

containing dusts may cause acute poisoning, leading to

nausea, vomiting and abdominal pain.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: May cause long lasting harmful effects to aquatic life.

12.2 Persistence and degradability: No further relevant information available. 12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.



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12.5 Results of PBT and vPvB assessment

Not applicable. PBT: vPvB: Not applicable.

No further relevant information available. 12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Disposal must be made according to official regulations. Do

not dispose of with domestic waste. Do not allow product to

reach sewage system.

European waste catalogue		
18 00 00	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care	
18 01	Wastes from natal care, diagnosis, treatment or prevention of disease in humans	
18 01 06*	Chemicals consisting of or containing dangerous substances	

SECTION 14:Transport information

14.1 UN number

ADR, IMDG, IATA: This product is not subject to transport regulations.

14.2 UN proper shipping name

ADR, IMDG, IATA: Not applicable

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class: Not applicable Danger labels: Not applicable

14.4 Packing group

ADR, IMDG, IATA: Not applicable

14.5 Environmental hazards No Marine pollutant: No

> No supplementary information available Special marking:

Not applicable 14.6 Special precautions for user Kemler Number: Not applicable EMS Number: Not applicable Not applicable

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

SECTION 15: Regulatory information

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

National regulations:

Employment restrictions: Employment restriction for adolescents, Employment

restrictions for child bearing mothers and nursing mothers.

Technical Instructions on Air Quality 5.2.2 Dusty inorganic materials. Class III.

Control (TA-Luft):

Water hazard class: WGK 3 - severely hazardous to water

Storage class: LGK 10-13

15.2 Chemical safety assessment A Chemical Safety Assessment of the product has not been

carried out.



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Page 7 of 7

according to Regulation (EC) No. 2015/830

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Special Solder CoNiCr nickel-containing, 1mm

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Adjustments compared to earlier versions

Section 1-16 New edition, complete revision

Relevant phrases

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

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods

by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Aquatic Chronic 4: Hazardous to the aquatic environment — Chronic Hazard, Category 4 Carc 2: Causes damage to organs through prolonged or repeated exposure.

Resp. Sens. 1: Sensitisation — Respiratory, category 1
Skin Sens. 1: Sensitisation — Skin, category 1