

**meganium CS**  
(Ni.-Cr.- MO.-Alloy)

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

**1.1 Product identifier:**

Trade name: **meganium CS - Alloy**

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

Ni. Cr. Mo. alloy, without beryllium and gallium for producing crown and bridges.

**1.3 Details of the supplier of the safety data sheet:**

Company name: megadental GmbH  
Street: Seeweg 20  
Place: D-63654 Büdingen  
e-mail: [info@megadental.de](mailto:info@megadental.de)  
Internet: [www.megadental.de](http://www.megadental.de)  
Contact person: Murat Büyük  
Telephone: +49 (0) 6042 9755 0  
Telefax: +49 (0) 6042 9755 20

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture:**

**Hazard statements**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer
- H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

**Precautionary statements**

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

- P201 Obtain special instructions before use.
- P281 Use personal protective equipment as required.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P363 Wash contaminated clothing before reus
- P405 Store locked up.

**2.2 Label elements:**

**Hazardous components which must be listed on the label**

nickel  
Signal word: Danger  
Pictograms: GHS07 - GHS08



**Labelling information**

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).

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**2.3 Other hazards:**

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 the product (see information in chapter 3).

**SECTION 3: Composition/information on ingredients**

**3.2. Chemical characterization:**

**Hazardous components:**

EC-No. CAS-No. Index-No. REACH-No.	Chemical name Classification according to Directive 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 (CLP)	Quantity
231-111-4 7440-02-0 028-002-00-7 --	<b>nickel</b> Carc.Cat.3; R40 T; R48/23 Carc. 2; H351 Skin Sens. 1; H317 STOT RE 1; H372	< 65%
231-157-5 7440-48-4 -- --	<b>chromium</b>	< 25%
231-107-2 7439-98-7 --	<b>molybdenum</b>	<10%

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures:**

- General information:** In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.
- After inhalation:** Ensure supply of fresh air. Remove affected person from the immediate area. When vapours are intensively inhaled, seek medical help immediately.
- After contact with skin:** Wash off immediately with soap and water.
- After contact with eyes:** Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.
- After ingestion:** Call a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed:**

No information available.

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

No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

Metal fire powders; Sand

#### **Suitable extinguishing media:**

Water, Foam; Carbon dioxide; Dry chemicals

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

No information available.

### 5.3 Advice for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information:**

Use self-contained breathing apparatus. Adapt extinguisher and fire-fighting measures to fire in the environment. Wear protective clothing.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Do not inhale vapours. Avoid dust formation. Refer to protective measures listed in sections 7 and 8.

Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions:

Collect contaminated water / firefighting water separately. Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Take up mechanically. Avoid raising dust. When picked up, treat material as prescribed under heading "Disposal considerations".

### 6.4 Reference to other sections:

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

#### **Advice on safe handling:**

Provide good ventilation of working area (local exhaust ventilation, if necessary).

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages. Do not inhale vapours or dust.

#### **Advice on protection against fire and explosion:**

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of ignition.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### **Requirements for storage rooms and vessels:**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Advice on storage compatibility:**

Do not store together with: explosive substances

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

Dental prothesis

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters:**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7440-02-0	nickel		0.1		TWA	WEL
7440-47-3	chromium		0.5		TWA	WEL

**8.2 Exposure controls:**

**Protective and hygiene measures:** Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection:** Safety glasses with side protection shield (EN 166)

**Hand protection:** In case of thermal processing, thermally insulating protective gloves are to be used. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Respiratory protection:** If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

Physical state: solid  
Colour: silver-colored  
Odour: odourless

**Changes in the physical state:**

**Test method**

**Changes in the physical state**

Density: 7.7 – 8.3 g/cm<sup>3</sup>  
melting point: 1410 °C  
Solubility in water: insoluble

**9.2 Other information:**

No information available.

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**SECTION 10: Stability and reactivity**

- 10.1 **Reactivity:** Dangerous reactions are not expected if the product is handled according to its intended use.
- 10.2 **Chemical stability:** Stable under recommended storage and handling conditions (See section 7).
- 10.3 **Possibility of hazardous reactions:** Possible hydrogen formation upon contact with acids.
- 10.4 **Conditions to avoid:** None, if handled according to intended use.
- 10.5 **Incompatible materials:** Acids
- 10.6 **Hazardous decomposition products:** No known hazardous decomposition products.

**SECTION 11: Toxicological information**

- 11.1 **Information on toxicological effects:**
- Acute toxicity:** No data available
- Irritation and corrosivity:** No data available.
- Sensitising effects:** No data available
- STOT-single exposure:** No data available
- Severe effects after repeated or prolonged exposure:** No data available
- Carcinogenic/mutagenic/toxic effects for reproduction:** No data available
- Aspiration hazard:** No data available
- Additional information on tests:** No data available

**SECTION 12: Ecological information**

- 12.1. **Toxicity:** No data available
- 12.2. **Persistence and degradability:** No data available
- 12.3. **Bioaccumulative potential:** No data available
- 12.4. **Mobility in soil:** No data available
- 12.5. **Results of PBT and vPvB assessment:** No data available
- 12.6 **Other adverse effects:** No information available.

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**SECTION 13: Ecological information**

**13.1 Waste treatment methods:**

**Advice on disposal:**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Contaminated packaging:**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information**

**Land transport (ADR/RID):**

- 14.1. UN-number: The product is not subject to ADR/RID/ADN regulations.  
14.2. UN proper shipping name:  
14.3. Transport hazard class (es):  
14.4. Packing group:

**Inland waterways transport (ADN):**

- 14.1. UN-number: The product is not subject to ADR/RID/ADN regulations.  
14.2. UN proper shipping name:  
14.3. Transport hazard class (es):  
14.4. Packing group:

**Marine transport (IMDG):**

- 14.1. UN-number: The product is not subject to IMDG regulations.  
14.2. UN proper shipping name:  
14.3. Transport hazard class (es):  
14.4. Packing group:

**Air transport (ICAO):**

- 14.1. UN-number: The product is not subject to ICAO-TI / IATA regulations.  
14.2. UN proper shipping name:  
14.3. Transport hazard class (es):  
14.4. Packing group:

**14.5. Environmental hazards:**

No data available.

**14.6. Special precautions for user:**

No data available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

not relevant

## SECTION 15: Regulatory information

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

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

#### **Restriction of occupation**

Adhere to the national sanitary and occupational safety regulations when using this product.

#### **Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

### 15.2. Chemical safety assessment:

No data available.

## SECTION 16: Other information

### 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 Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

**E.C.Safety Data Sheet** according with regulation (EC)  
1907/2006 (REACH)

megadental GmbH  
Seeweg 20  
D-63654 Büdingen

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**Relevant P-phrases (Number and full text)**

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- P308+P313 IF exposed or concerned: Get medical advice/attention.
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- P363 Wash contaminated clothing before reus
- P405 Store locked up.

**Relevant H- and EUH-phrases (Number and full text)**

- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer
- H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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