1907/2006 (REACH)

megadental GmbH Seeweg 20 D-63654 Büdingen

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meganium fm80 / meganium NF

(Co.-Cr.- Alloy)

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

1.1 Product identifier:

Trade name: meganium fm80 / meganium NF

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

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

1.3 <u>Details of the supplier of the safety data sheet:</u>

Company name: megadental GmbH

Street: Seeweg 20

Place: D-63654 Büdingen
e-mail: info@megadental.de
Internet: 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.

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

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

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

P273 Avoid release to the environment.

P285 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in

a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

2.2 <u>Label elements:</u>

Hazardous components which must be listed on the label

cobalt

Signal word: Danger Pictograms: 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
231-158-0 7440-48-4 	cobalt Xn Aquatic Chronic 4; H413 Resp. Sens. 1; H334 Skin Sens. 1; H317	< 60%
231-157-5 7440-48-4 	chromium	< 33%
231-107-2 7439-98-7 	molybdenum	< 8%

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 <u>Indication of any immediate medical attention and special treatment needed:</u>

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 <u>Control parameters:</u>

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³ fibres/ml	Category	Origin
7440-48-4	cobalt		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 <u>Information on basic physical and chemical properties:</u>

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/cm³ melting point: 1450 °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 <u>Information on toxicological effects:</u>

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. 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

<u>assessment:</u> 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. <u>Environmental hazards:</u>

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

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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

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

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%

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Relevant P-phrases (Number and full text)

P273 Avoid release to the environment.

P285 In case of inadequate ventilation wear respiratory protection.

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

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in

a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

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

H317 May cause an allergic skin reaction.

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

H413 May cause long lasting harmful effects to aquatic life.

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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