

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**remanium GM 280, 380+, 800+, 900, 2000+, 2001, star, Triloy, Secura, LFC**

Revision date: 24.03.2021

Product code: 102-001

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

remanium GM 280, 380+, 800+, 900, 2000+, 2001, star, Triloy, Secura, LFC

**Further trade names**

Article No.: 100-500-00, 102-001-10, 102-200-10, 102-250-00, 102-280-00, 102-600-01, 102-600-02, 102-600-10, 102-601-10, 102-602-10, 102-610-00, 102-611-00, 102-612-00, 102-620-00, 102-621-00, 102-622-00, 102-630-00, 102-631-00, 102-632-00, 102-640-00, 102-641-00, 102-642-00

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

Health services.

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

Company name:	DENTAURUM GmbH & Co. KG	
Street:	Turnstr. 31	
Place:	D-75228 Ispringen	
Telephone:	+49 7231 803 0	Telefax: +49 7231 803 295
e-mail:	info@dentaurum.de	
Internet:	www.dentaurum.com	

**Further Information**

Emergency telephone:  
07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 193  
16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Acute toxicity: Acute Tox. 4  
Serious eye damage/eye irritation: Eye Irrit. 2  
Respiratory or skin sensitisation: Resp. Sens. 1  
Respiratory or skin sensitisation: Skin Sens. 1  
Carcinogenicity: Carc. 1B  
Reproductive toxicity: Repr. 2  
Hazardous to the aquatic environment: Aquatic Chronic 4  
Hazard Statements:  
Harmful if swallowed.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
May cause cancer by inhalation.  
Suspected of damaging fertility.  
May cause long lasting harmful effects to aquatic life.  
Compact metal/alloy without hazards for human health or environment

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

none

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**Pictograms:****Additional advice on labelling**

For this product, a hazard label is not required according to section 1.3.4 of Annex I of the CLP regulation.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Dental alloy on cobalt-chrome base.

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7440-48-4	Cobalt			30-70 %
	231-158-0			
	Carc. 1B, Repr. 2, Acute Tox. 4, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Aquatic Chronic 4; H350i H361f H302 H319 H334 H317 H413			
7440-47-3	Chromium			20-40 %
7439-98-7	Molybdenum			4-10 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7440-48-4	231-158-0	Cobalt	30-70 %
	oral: LD50 = 6171 mg/kg		

**Further Information**

Remanium Star Ingredient (name): cobalt, Chromium

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. Inhalation of dust/particles: Remove casualty to fresh air and keep warm and at rest.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with molten product, cool skin area rapidly with cold water.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

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#### After ingestion

Rinse mouth immediately and drink 1 glass of water.

#### **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**

Treat symptomatically.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

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

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

#### **5.2. Special hazards arising from the substance or mixture**

Non-flammable.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General measures**

Avoid dust formation.

#### **6.2. Environmental precautions**

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

#### **6.3. Methods and material for containment and cleaning up**

##### **Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Avoid dust formation.

#### **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**

No special measures are necessary.

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

Avoid dust formation.

#### **7.2. Conditions for safe storage, including any incompatibilities**

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

Keep container tightly closed. No special measures are necessary.

##### **Hints on joint storage**

No special measures are necessary.

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

Health services.

### SECTION 8: Exposure controls/personal protection

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#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7440-47-3	Chromium	-	0.5		TWA (8 h)	WEL

#### 8.2. Exposure controls



##### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. Do not breathe dust. Do not eat, drink or smoke when using this product.

Caution! Hot molten mass. Conditions to avoid: Skin contact

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Use of protective clothing

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: In the case of the formation of dust.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Pellets	
Colour:	silver grey	
Odour:	odourless	
Odour threshold:	not applicable	
pH-Value:		not determined
<b>Changes in the physical state</b>		
Melting point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Flash point:		not applicable
Sustaining combustion:		No data available
<b>Flammability</b>		
Solid/liquid:		not determined
Gas:		not applicable

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Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
<b>Self-ignition temperature</b>	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapour pressure:	not determined
Vapour pressure:	not determined
Density:	8 g/cm <sup>3</sup>
Bulk density:	not determined
Water solubility:	insoluble
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
<b><u>9.2. Other information</u></b>	
Solid content:	not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No risks worthy of mention.

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

none

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****ATEmix calculated**

ATE (oral) 714,3 mg/kg

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**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7440-48-4	Cobalt				
	oral	LD50 mg/kg	6171	Rat	

**Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**11.2. Information on other hazards****Other information**

Health hazards: none

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

Solubility in water (g/l): The study does not need to be conducted because the substance is known to be insoluble in water.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**SECTION 14: Transport information****14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**Other applicable information**

Not a hazardous material with respect to transportation regulations.

**SECTION 15: Regulatory information**

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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

For this product, a hazard label is not required according to section 1.3.4 of Annex I of the CLP regulation.

**National regulatory information**

Water hazard class (D):

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,3,8,9,11,15.

**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%

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 1B; H350i	Calculation method
Repr. 2; H361f	Calculation method
Aquatic Chronic 4; H413	Calculation method

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H350i May cause cancer by inhalation.  
H361f Suspected of damaging fertility.  
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.)*