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

· 1.1 Product identifier

• Trade name: Brealloy C+B 270, Brealloy F 400

• Article number: 500 CB 000, 500 CB 050, 500 CB 200, 500 CB 500, 500 ML 000, 500 ML 100, 500 ML 500

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

No further relevant information available.

• Application of the substance / the mixture: Dental alloy.

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: bredent GmbH & Co.KG Weißenhorner Straße 2 89250 Senden Tel: +49 (0) 7309/872-0 Fax: +49 (0) 7309/872-24

Further information obtainable from: R & D
e-mail: R.D@bredent.com
1.4 Emergency telephone number: (001) 352 323 3500

SECTION 2: Hazards identification

\cdot 2.1 Classification of the substance or mixture

· Remark

The device is a medical device pursuant to Council Directive 93/42/EEC of 14 June 1993 concerning medical devices. No safety data sheet is required for the device, so no claim is made to full compliance with the relevant statutory requirements.

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

health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 2	H341	Suspected of causing genetic defects.
Repr. 1B	H360F	F May damage fertility.



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

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

· 2.2 Label elements

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

Medical products and medical devices within the meaning of Directives 90/385/EEC and 93/42/EEC used in an invasive manner or in direct contact with the body as well as medical products and medical devices falling under Directive 98/79/EC are fully exempt from the provisions of the CLP Regulation and therefore do not need to be classified, packaged or labelled.

The product is classified and labelled according to the CLP regulation.

• Hazard pictograms GHS08

• Signal word Danger

· Hazard-determining components of labelling:

cobalt

• Hazard statements

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H360F May damage fertility.

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Trade name: Brealloy C+B 270, Brealloy F 400

HA13 May cause		
	long lasting harmful effects to aquatic life.	
Precautionary state		
	n special instructions before use.	
	breathing dust/fume/gas/mist/vapours/spray.	
	osed or concerned: Get medical advice/attention.	
	ff contaminated clothing and wash it before reuse.	
	priencing respiratory symptoms: Call a POISON CENTER/doctor.	
Additional informa		
Restricted to profes 2.3 Other hazards		
	heir usual solid physical state do not constitute any physical or hea	lth hazard However
processing in any swallowed, or com dust, fumes, or gag fume fever. Chronic of pneumoconiosis Excess inhalation of inhalation to mang Specifically, the pa Alloys, and Nickel National Program (POSSIBLE SYMPT Acute: Irritation of	tions such as brazing, burning, cutting, grinding, heat treating, p other fashion may produce potentially hazardous dust or fume w e in contact with the skin, eyes, or mucous membranes.Possible syn es:Acute: Irritation of eyes, nose, throat, and skin; metallic taste in t c: Only after six to ten years of exposure to iron dust or fumes does . Physical examinations of those exposed to iron dust have not ind of Chromium fumes has been associated with respiratory cancer. Exc anese (generally over 2 years exposure) can cause damage to the ce thology resembles Parkinson's Disease. Carcinogenicity: Chromiu have been identified by the International Agency for Research on C (NTP) as potential cancer causing agents. ONS OF EXPOSURE TO DUST, FUMES, OR GASES: f eyes, nose, throat and skin; metallic taste in mouth; nausea, metal F	which can be inhalea aptoms of exposure to mouth; nausea; meta one present any sign licated any disability cessive and prolonged entral nervous system of Cobalt-Chromiun Cancer (IARC and th
pneumoconiosis. F Excess inhalation o Excessive or prolor central nervous syst	Ter six to ten years of exposure to iron dust or fumes does one Physical examinations of those exposed to iron dust have not indi of Chromium fumes has been associated with respiratory cancer. Inged inhalation to manganese (generally over 2 years exposure) can tem. Specifically, the pathology resembles Parkinson's Disease.	icated and disability
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pneumoconiosis. F Excess inhalation of Excessive or prolor central nervous syst Results of PBT and PBT: Not applicable vPvB: Not applicable SECTION 3: Co 3.2 Chemical chard Description: Mixtur	There six to ten years of exposure to iron dust or fumes does one Physical examinations of those exposed to iron dust have not indi of Chromium fumes has been associated with respiratory cancer. anged inhalation to manganese (generally over 2 years exposure) can tem. Specifically, the pathology resembles Parkinson's Disease. a vPvB assessment le. ble. ble . composition/information on ingredients re of substances listed below with nonhazardous additions. ments: cobalt	icated and disability
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pneumoconiosis. F Excess inhalation o Excessive or prolor central nervous syst Results of PBT and PBT: Not applicable vPvB: Not applicable SECTION 3: CO 3.2 Chemical chard Description: Mixtur Dangerous compor CAS: 7440-48-4 EINECS: 231-158-0 CAS: 7440-47-3 EINECS: 231-157 CAS: 7440-33-7 EINECS: 231-143-9	<pre>er six to ten years of exposure to iron dust or fumes does one Physical examinations of those exposed to iron dust have not indi of Chromium fumes has been associated with respiratory cancer. nged inhalation to manganese (generally over 2 years exposure) can tem. Specifically, the pathology resembles Parkinson's Disease. I vPvB assessment le. oble.</pre>	icated and disability a cause damage to th 25-50% 10-25% 10-25%
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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions: Do not allow to penetrate the ground/soil. Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

- Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Extractors are required on all machines used for thermal processing or splinter removal processes. Prevent formation of dust.

- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

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ngredients with lim	it values that require monitoring at the workplace:
	5-50%)
VEL (Great Britain)	Long-term value: 0.1 mg/m ³ as Co; Carc, Sen
440-47-3 chromiun	n (10-25%)
VEL (Great Britain)	Long-term value: 0.5 mg/m ³
440-33-7 tungsten	(10-25%)
VEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as W
439-96-5 mangane	se (≤3%)
VEL (Great Britain)	Long-term value: 0.2* 0.05** mg/m ³ as Mn *inhalable fraction **respirable fraction
The usual precaution Teep away from food Vash hands before b Respiratory protection Tot necessary if roon	equipment: and hygienic measures: aary measures are to be adhered to when handling chemicals. dstuffs, beverages and feed. breaks and at the end of work.

Appearance: Form:	Solid	
Colour:	Silver grey	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point: Initial boiling point and boiling	> 1100 °C range: > 2000 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	



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Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	$8.1 - 8.8 \text{ g/cm}^3$
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
VÕC (EC)	0,00 %
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

7440-48-4 cobalt

Oral LD50 6,170 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

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

- May cause an allergic skin reaction.
- Additional toxicological information:

No toxic effect would be expected from exposure to the solid form of Steel products. Prolonged, repeated exposure to fumes or dust generated during subsequent operations may or may not cause adverse health effects associated with the listed constituents in excess of OSHA permissible exposure limits established in 29 CFR Part 2920.1200 (See Section 2. Generic Ingredients).

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- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) • Germ cell mutagenicity
- Suspected of causing genetic defects.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- May damage fertility.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 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.
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.*

SECTION 14: Transport information

1 0		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
• 14.6 Special precautions for user • Stowage Category	Not applicable. B	
• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
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· UN "Model Regulation":

Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms GHS08
- Signal word Danger
- Hazard-determining components of labelling: cobalt

· Hazard statements

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H360F May damage fertility.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

- *P201 Obtain special instructions before use.*
- *P261* Avoid breathing dust/fume/gas/mist/vapours/spray.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- *P321* Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H317 May cause an allergic skin reaction.

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H360F May damage fertility.

H413 May cause long lasting harmful effects to aquatic life.

· Department issuing SDS: R & D

· Contact: R & D

• Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative*
- Resp. Sens. 1: Respiratory sensitisation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- Muta. 2: Germ cell mutagenicity Category 2

(Contd. on page 8)

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Trade name: Brealloy C+B 270, Brealloy F 400

Repr. 1B: Reproductive toxicity – Category 1B Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 • * *Data compared to the previous version altered.* (Contd. of page 7)

