

**SAFETY DATA SHEET (EC 1907/2006)****Compartis CoCr**

Material no.		Version	1.2 / GB
Specification	160329	Revision date	22.11.2011
VA-Nr	01628707	Print Date	02.12.2011
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A Dentsply Company

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	Compartis CoCr
Company	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	+49 (0)6181/59-5767
Telefax	+49 (0)6181/59-5879
Email address	SDB@degudent.de
Emergency telephone number	+49 (0)180 / 23 24-555

Use of the Substance / Preparation For dental use only.

REACH Registration No.: if available listed in Chapter. 3

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

Respiratory sensitization	Category 1	H334
Skin Sensitisation	Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard	Category 4	H413

**GHS-Labeling****hazard-defining component(s) (GHS)**

- cobalt

Symbol(s)



Signal word	Danger
Hazard statement	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 - May cause an allergic skin reaction. H413 - May cause long lasting harmful effects to aquatic life.
Precautionary statement	P280 - Wear protective gloves/protective clothing/eye protection.
Precautionary statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P285 - In case of inadequate ventilation wear respiratory protection.
Precautionary statement: Reaction	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 - Wash contaminated clothing before reuse.

**Supplemental hazard / labelling elements (EU):**

May react forming chromium(VI) compounds when processing thermally.

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**Classification as per Directive 67/548/EC or Directive 1999/45/EC**

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

**Other Hazards**

When melting, soldering and grinding:  
Do not breathe Dusts and vapours:.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components As per EU-CLP Ordinance (EC) No. 1272/2008**

<b>• cobalt</b>	55.2%			
CAS-No.	7440-48-4	EC-No.	231-158-0	
Respiratory sensitization				Category 1 H334
Skin Sensitisation				Category 1 H317
Hazardous to the aquatic environment - Chronic Hazard				Category 4 H413
<b>• chromium</b>	18.4%			
CAS-No.	7440-47-3	EC-No.	231-157-5	
<b>• tungsten</b>	18.4%			
CAS-No.	7440-33-7	EC-No.	231-143-9	
<b>• iron</b>	6.0%			
CAS-No.	7439-89-6	EC-No.	231-096-4	
<b>• aluminium</b>	2.0%			
CAS-No.	7429-90-5	EC-No.	231-072-3	
Substance or mixture which in contact with water emits flammable gas				Category 2 H261
Flammable solids				Category 1 H228

**Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

<b>• cobalt</b>	55.2%		
CAS-No.	7440-48-4	EC-No.	231-158-0
	R42/43 R53		
<b>• chromium</b>	18.4%		
CAS-No.	7440-47-3	EC-No.	231-157-5
<b>• tungsten</b>	18.4%		
CAS-No.	7440-33-7	EC-No.	231-143-9
<b>• iron</b>	6.0%		
CAS-No.	7439-89-6	EC-No.	231-096-4
<b>• aluminium</b>	2.0%		
CAS-No.	7429-90-5	EC-No.	231-072-3
	F; R11, R15		

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Texts of H phrases, see in Chapter 16  
See chapter 16 for text of risk phrases

### 4. FIRST AID MEASURES

#### Inhalation

In case product dust is released:  
Do not breathe Dusts and vapours:.

#### Skin contact

Wash off with soap and water.  
In the case of skin irritation or allergic reactions see a physician.

#### Eye contact

Rinse with plenty of water.  
If eye irritation persists, consult a specialist.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.  
Consult a physician immediately.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

special powder against metal fire, quenching powder, dry sand, common salt

#### Unsuitable extinguishing media

water, carbon dioxide (CO<sub>2</sub>)

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

May be released in case of fire: cobalt oxide.

#### Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

#### Advice for firefighters

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation.  
Avoid breathing dust.  
In case of dust being formed, provide for adequate extraction.  
Ensure suitable suction/aeration at the work place and with operational machinery.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Use mechanical handling equipment.  
Avoid dust formation.  
Fill into marked, sealable containers.

### 7. HANDLING AND STORAGE

#### Handling

##### Precautions for safe handling

When melting, soldering and grinding:

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Local ventilation.  
Avoid dust formation.  
If occurs dust / vapour: Wear personal protective equipment  
Do not breathe Dusts and vapours:.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

• cobalt			
CAS-No.	7440-48-4	EC-No.	231-158-0
Control parameters	0.1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
• chromium			
CAS-No.	7440-47-3	EC-No.	231-157-5
Control parameters	0.5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
Control parameters	0.05 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 MEL)
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.		
Control parameters	0.5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EU ELV)
	Indicative		
• tungsten			
CAS-No.	7440-33-7	EC-No.	231-143-9
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.		
Control parameters	5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	10 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 WEL)
• aluminium			
CAS-No.	7429-90-5	EC-No.	231-072-3
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Inhalable dust.		
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Respirable dust.		

**Engineering measures**

cobalt - vapour is released during processing.  
Ensure that there is suitable air extraction / ventilation at the workplace or at the working machines.  
Extractor suction on specific objects.

**Personal protective equipment****Respiratory protection**

When working without/without sufficient suction of objects:  
Respirator with P3 particle filter

**Hand protection**

protective gloves

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Glove material butyl-rubber, nitrile rubber, Natural Rubber/Natural latex (NR)

### Eye protection

Safety glasses with side-shields  
If fumes, dust occurs: basket-shaped glasses

### Skin and body protection

Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work.  
Preventive skin protection recommended.

### Hygiene measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.  
No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.  
Do not inhale fumes, dust, vapour.  
If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid
Colour	grey
Odour	odourless

### Information on basic physical and chemical properties

## 10. STABILITY AND REACTIVITY

Conditions to avoid	None known
Incompatible materials	None known
Hazardous decomposition products	decomposition products if heated above melting point. Metallic vapours

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	no data available
Acute inhalation toxicity	no data available
Acute dermal toxicity	no data available
Skin irritation	no data available
Eye irritation	no data available
Sensitization	no data available
Repeated dose toxicity	no data available
Mutagenicity assessment	no data available
Carcinogenicity	No data available

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Toxicity to reproduction	No data available
Human experience	To date handling this product has not been known to cause any detrimental effects.
Further information	No dangerous reactions are known to occur with correct handling and storage. Cobalt (dusts and vapours): Clues to possible carcinogenic effects in animal experiments. literature

## 12. ECOLOGICAL INFORMATION

### Further information on ecology

Further Information	Dusts and water soluble alloy types: Prevent penetration into soil, stretches of water and drainage systems.
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## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Uncleaned packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

### Transport/further information

Not dangerous according to transport regulations.

## 15. REGULATORY INFORMATION

### National legislation

## 16. OTHER INFORMATION

### Risk phrase (R phrase) texts

- cobalt

R42/43	May cause sensitization by inhalation and skin contact.
R53	May cause long-term adverse effects in the aquatic environment.

- aluminium

R11	Highly flammable.
R15	Contact with water liberates extremely flammable gases

### Texts of the H-phrases

- cobalt

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

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- || H413 May cause long lasting harmful effects to aquatic life.
- ||• aluminium
- || H261 In contact with water releases flammable gas.
- || H228 Flammable solid.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration Factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c. c.</b>	closed cup (geschlossenes Gefäß)
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	Carcinogenic-Mutagenic-toxic for Reproduction
<b>DIN</b>	German Institute for Standardization
<b>DNEL</b>	Derived No Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice.
<b>GMO</b>	Genetic Modified Organism
<b>IATA DGR</b>	International Air Transport Association – Dangerous Goods Regulations
<b>ICAO-TI</b>	International Civil Aviation Organisation - Technical Instructions
<b>IMDG Code</b>	International Maritime Dangerous Goods Code
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>LOEL</b>	Lowest Observed Effect Level
<b>NOAEL</b>	No Observed Adverse Effect Level
<b>NOEC</b>	No Observed Effect Concentration
<b>NOEL</b>	No Observed Effect Level
<b>o. c.</b>	open cup (offenes Gefäß)
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, Bioaccumulative, Toxic
<b>PEC</b>	Predicted Effect Concentration
<b>PNEC</b>	Predicted No Effect Concentration
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>TA</b>	Technical Instructions (German Ordinance)
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances (German Regulations)
<b>VCI</b>	German "Verband der Chemischen Industrie e. V."
<b>vPvB</b>	Very Persistent, Very Bioaccumulative
<b>VOC</b>	Volatile Organic Compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	German Water Hazard Class
<b>WHO</b>	World Health Organization