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Safety Data Sheet

according to 1907/2006/EC, Article 31

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1 Identification of the substance/preparation and of the company/undertaking

Product information

Trade name: inCoris CC

Company:

Sirona Dental Systems GmbH Fabrikstrasse 31 D-64625 Bensheim - Deutschland www.sirona.com

Tel.:+49 (0) 6251/16 3440 Fax:+40 (0) 6251/16 2935

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 Sensitization Category 1 H317
Hazardous to the aquatic environment - Chronic Hazard Category 4 H413

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

R42/43: May cause sensitization by inhalation and skin contact.

R53: May cause long-term adverse effects in the aquatic environment.

GHS-Labelling

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.

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Precautionary statement: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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.

Other Hazards

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

May release metal vapours when melting.

Cobalt - vapour is released during processing.

Limited evidence of a carcinogenic effect.

3 Composition/information on ingredients

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

- cobalt		60% - 70%	
CAS-No.	7440-48-4	EC-No. 231-158-0	
Respiratory sensitization		Category 1	H334
Skin Sensitization		Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard		Category 4	H413
- chromium		20% -	30%
CAS-No.	7440-47-3	EC-No. 231-1	57-5
- molybdenum		0% - 1	L0%
CAS-No.	7439-98-7	EC-No. 231-1	07-2

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

- **cobalt** 60% - 70% CAS-No. 7440-48-4 EC-No. 231-158-0

R42/43 R53

 - chromium
 20% - 30%

 CAS-No.
 7440-47-3
 EC-No.
 231-157-5

 - molybdenum
 0% - 10%

 CAS-No.
 7439-98-7
 EC-No.
 231-107-2

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

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4 First aid measures

Inhalation

Remove to fresh air.

If symptoms persist, call a physician.

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 (CO2)

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

The product itself does not burn.

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.

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7 Handling and storage

Handling

Precautions for safe handling

When melting, soldering and grinding:

Local ventilation.

Avoid dust formation.

If occurs dust / vapour: Wear personal protective equipment

Do not breathe Dusts and vapours:

8 Exposure controls/personal protection

cobalt		
		50.11 004.450.0
CAS-No.	7440-48-4	EC-No. 231-158-0
Control parameters	0.1 mg/m3	Time Weighted Average (TWA):(EH40 WEL)
chromium		
CAS-No.	7440-47-3	EC-No. 231-157-5
Control parameters	0.5 mg/m3	Time Weighted Average (TWA):(EH40 OES)
Control parameters	0.05 mg/m3	Time Weighted Average (TWA):(EH40 MEL)
Control parameters	4 mg/m3	Time Weighted Average (TWA):(EH40 (UK))
type of exposure	Respirable dust.	
Control parameters	10 mg/m3	Time Weighted Average (TWA):(EH40 (UK))
type of exposure	Total inhalable dust.	
Control parameters	0.5 mg/m3	Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 mg/m3	Time Weighted Average (TWA):(EU ELV)
	Indicative	
molybdenum		
CAS-No.	7439-98-7	EC-No. 231-107-2
Control parameters	10 mg/m3	Time Weighted Average (TWA):(EH40 WEL)

Engineering measures

Control parameters

Avoid dust formation.

In case product dust is released:

Ensure that there is suitable air extraction / ventilation at the workplace or at the working machines. Extractor suction on specific objects.

Short Term Exposure Limit (STEL):(EH40 WEL)

Moisten dust residues with water, then remove them mechanically and dispose of them in suitable containers.

Personal protective equipment

Respiratory protection

When working without/without sufficient suction of objects:

20 mg/m3

Respirator with P3 particle filter

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Hand protection

protective gloves

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.

In case product dust is released:

Change contaminated clothing.

Remove and wash contaminated clothing before re-use.

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

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Repeated dose toxicity Mutagenicity assessment

Carcinogenicity

Toxicity to reproduction

no data available no data available No data available

No data available

Human experience To date handling this product has not been known to cause any

detrimental effects.

The solubility of the alloy is extremely low. It must therefore be assumed that the daily uptake of these elements is considerably

exceeds that from the alloy.

As a constituent of vitamin B12 cobalt is an essential element of the

human body.

Molybdenum is an essential element of the human body.

The daily dietary uptake of chromium amounts to several milligrams.

Information taken from reference works and the literature.

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.

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

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R53 May cause long-term adverse effects in the aquatic environment.

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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.

H413 May cause long lasting harmful effects to aquatic life.

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.

Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

ADNR European agreement concerning the international carriage of dangerous goods by inland

waterways (ADN)

ASTM American Society for Testing and Materials

ATP Adaptation to Technical Progress

BCF Bioconcentration Factor

BetrSichV German Ordinance on Industrial Safety and Health

c. c. closed cup

CAS Chemical Abstract Services

CESIO European Committee of Organic Surfactants and their Intermediates

ChemG German Chemicals Act

CMR Carcinogenic-Mutagenic-toxic for Reproduction

DIN German Institute for Standardization

DNEL Derived No Effect Level

EINECS European Inventory of Existing Commercial Chemical Substances

GefStoffV German Ordinance on Hazardous Substances

GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous goods

GGVSee German ordinance for sea transportation of dangerous goods

GLP Good Laboratory Practice.
GMO Genetic Modified Organism

IATA DGR International Air Transport Association – Dangerous Goods Regulations

ICAO-TI International Civil Aviation Organisation - Technical Instructions

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IMDG Code International Maritime Dangerous Goods Code
ISO International Organization For Standardization

LOAEL Lowest Observed Adverse Effect Level

LOEL Lowest Observed Effect Level

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

o. c. open cup

OECD Organisation for Economic Cooperation and Development

OEL Occupational Exposure Limit

PBT Persistent, Bioaccumulative, Toxic

PEC Predicted Environmental Concentration

PNEC Predicted No Effect Concentration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TA Technical Instructions (German Ordinance)

TPR Third Party Representative (Art. 4)

TRGS Technical Rules for Hazardous Substances (German Regulations)

VCI German "Verband der Chemischen Industrie e. V."

vPvB Very Persistent, Very Bioaccumulative

VOC Volatile Organic Compounds

VwVwS German Administrative Regulation on the Classification of Substances Hazardous to

Waters into Water Hazard Classes

WGK German Water Hazard Class WHO World Health Organization