149740





Material no. Specification VA-Nr

StarLoy C

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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Product information Trade name : StarLoy C Company DeguDent GmbH : Postfach 1364 D-63403 Hanau Telephone +49 (0)6181/59-5767 1 Telefax +49 (0)6181/59-5879 2 Email address SDB@degudent.de 1 Emergency telephone number : +49 (0)180 / 23 24-555 Use of the Substance / : For dental use only. Preparation

2. HAZARDS IDENTIFICATION

Additional safety information for humans and the environment

cobalt - vapour is released during processing. May cause cancer. May release metal vapours when melting. Do not breathe Dusts and vapours:.

Experience with human beings: To date handling this product has not been known to cause any detrimental effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

• cobalt CAS-No.	7440-48-4 R42/43 R53	59.4% EC-No.	231-158-0
• chromium CAS-No.	7440-47-3	24.5% EC-No.	231-157-5
• tungsten CAS-No.	7440-33-7	10.0% EC-No.	231-143-9
Niobium CAS-No.	7440-03-1	2.0% EC-No.	231-113-5
Vanadium CAS-No.	7440-62-2	2.0% EC-No.	231-171-1
• molybdenum CAS-No.	7439-98-7	1.0% EC-No.	231-107-2
Silicium CAS-No.	7440-21-3	1.0% EC-No.	215-609-9

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• iron CAS-No.	7439-89-6	0.1% EC-N		1-096-4

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

Inhalation

Upon formation of vapours / fumes are formed: / In case product dust is released: cough, sneezing, flow of tears. In the case of high or long-term exposure: Possible discomfort: gastro-intestinal complaints, difficulty in breathing, drop in blood pressure, cramp, fever. Symptoms may occur with delay. Move victims into fresh air. In case of persistent discomfort: Consult a physician immediately.

Skin contact

Dusts and vapours: Wash off immediately with soap and plenty of water.

Eye contact

In case product dust is released: Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort Consult an ophthalmologist.

Ingestion

Consult a physician.

Notes to physician

Upon formation of vapours / fumes are formed: / In case product dust is released: In the case of high or long-term exposure: Fever induced by metal vapours possible. cobalt: gastro-intestinal symptoms, skin reddening, drop in blood pressure, cramp, cyanosis. Treatment of symptoms. after absorbing large amounts of substance: Acceleration of gastrointestinal passage

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

All extinguishing substances suitable.

Special protective equipment for fire-fighters

No special protective equipment required.

Further information

The product itself does not burn. Adapt fire extinguishing methods to site.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No special precautions required.

Methods for cleaning up

Use mechanical handling equipment.

7. HANDLING AND STORAGE

Handling

Safe handling advice

When melting, soldering and grinding: Local ventilation. Do not breathe Dusts and vapours:. No particular measures required if used correctly. If occurs dust / vapour: Wear personal protective equipment

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

 cobalt 			
CAS-No. Control parameters	7440-48-4 0.1 mg/m3	EC-No.	231-158-0 Time Weighted Average (TWA): <mark>(</mark> EH40 WEL)
Control parameters	4 mg/m3		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m3		Time Weighted Average (TWA): <mark>(</mark> EH40 (UK))
type of exposition	Total inhalable dust.		
 chromium 			
CAS-No. Control parameters	7440-47-3 0.5 mg/m3	EC-No.	231-157-5 Time Weighted Average (TWA): <mark>(</mark> EH40 OES)
Control parameters	0.05 mg/m3		Time Weighted Average (TWA): <mark>(</mark> EH40 MEL)
Control parameters	4 mg/m3		Time Weighted Average (TWA): <mark>(</mark> EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m3		Time Weighted Average (TWA): <mark>(</mark> EH40 (UK))
type of exposition	Total inhalable dust.		
Control parameters	0.5 mg/m3		Time Weighted Average (TWA): <mark>(</mark> EH40 WEL)
Control parameters	2 mg/m3		Time Weighted Average (TWA):(EU ELV)
 tungsten 			
CAS-No. Control parameters	7440-33-7 4 mg/m3	EC-No.	231-143-9 Time Weighted Average (TWA): <mark>(</mark> EH40

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tupe of expeciti	ion Dooni	rable duat		(UK))	
type of expositi Control parame		rable dust. /m3		Time Weighte (UK <mark>))</mark>	ed Average (TWA):(EH40
type of expositi Control parame		nhalable dust. m3		Time Weighte WEL)	ed Average (TWA):(EH40
Control parame	eters 10 mg	ı/m3		,	xposure Limit (STEL) <mark>:(</mark> EH40
 Niobium 					
CAS-No. Control parame	7440- eters 4 mg/r		EC-No.	231-113-5 Time Weighte (UK))	ed Average (TWA) <mark>:(</mark> EH40
type of expositi	ion Respi	rable dust.			
Control parame	-			Time Weighte (UK) <mark>)</mark>	ed Average (TWA): <mark>(</mark> EH40
type of expositi	ion Total i	nhalable dust.			
 molybdenu 	m				
CAS-No. Control parame	7439- eters 10 mg		EC-No.	231-107-2 Time Weighte WEL)	ed Average (TWA) <mark>:(</mark> EH40
Control parame	eters 20 mg	/m3		Short Term E WEL)	xposure Limit (STEL):(EH40
 Silicium 					
CAS-No. Control parame	7440- eters 4 mg/r		EC-No.	0	ed Average (TWA) <mark>:(</mark> EH40
type of expositi	ion Respi	rable dust.		(UK) <mark>)</mark>	
Control parame				Time Weighte (UK))	ed Average (TWA):(EH40
type of expositi	ion Total i	nhalable dust.			
Control parame	-			Time Weighte WEL)	ed Average (TWA): <mark>(</mark> EH40
type of expositi	ion Inhala	ble dust.			
Control parame	-			Time Weighte WEL <mark>)</mark>	ed Average (TWA): <mark>(</mark> EH40
type of expositi	on Respi	rable dust.			

Engineering measures

cobalt - vapour is released during processing. Ensure suitable suction/aeration at the work place and with operational machinery.

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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Eye protection

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

Skin and body protection

If cobalt - vapour occurs: Change contaminated clothing. Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work. Preventive skin protection recommended.

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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 the limits at the workplace 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 Colour Odour	solid white odourless
Safety data	
Melting point/range	1270 - 1370 ℃
Density	8.8 g/cm3

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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



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12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Behaviour in environmental compartments

Ecotoxicity effects

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 classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Other data

According to the Dangerous Preparations Directive (1999/45/EG): no labelling

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.

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Further information

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

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