Biosil f Biosil I

Biosil Laserdraht

 Material no.
 Version
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name Biosil f

Biosil I

Biosil Laserdraht

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

Other Hazards

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

1999/43/E	<u> </u>			
• cobalt			60% - 70%	
CAS-No.	7440-48-4 R42/43 R53	EC-No.	231-158-0	
• chromium			25% - 35%	
CAS-No.	7440-47-3	EC-No.	231-157-5	
molybdenum			3% - 7%	
CAS-No.	7439-98-7	EC-No.	231-107-2	
• Silicium			1% - 5%	
CAS-No.	7440-21-3	EC-No.	215-609-9	

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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.

Indication of any immediate medical attention and special treatment needed

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.

Advice for firefighters

The product itself does not burn.

Adapt fire extinguishing methods to site.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No special precautions required.

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Methods and material for containment and cleaning up

Use mechanical handling equipment.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

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

Control parameters

• cobalt			
CAS-No. Control parameters	7440-48-4 0.1 mg/m3	EC-No.	231-158-0 Time Weighted Average (TWA):(EH40 WEL)
• chromium			
CAS-No. Control parameters	7440-47-3 0.5 mg/m3	EC-No.	231-157-5 Time Weighted Average (TWA):(EH40 OES)
Control parameters	0.05 mg/m3		Time Weighted Average (TWA):(EH40 MEL)
Control parameters type of exposition	4 mg/m3 Respirable dust.		Time Weighted Average (TWA):(EH40 (UK))
Control parameters type of exposition	10 mg/m3 Total inhalable dust.		Time Weighted Average (TWA):(EH40 (UK))
Control parameters	0.5 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 mg/m3 Indicative		Time Weighted Average (TWA):(EU ELV)
• molybdenum			
•			
CAS-No. Control parameters	7439-98-7 10 mg/m3	EC-No.	231-107-2 Time Weighted Average (TWA):(EH40 WEL)
CAS-No.		EC-No.	
CAS-No. Control parameters	10 mg/m3	EC-No.	Time Weighted Average (TWA):(EH40 WEL)
CAS-No. Control parameters Control parameters	10 mg/m3	EC-No.	Time Weighted Average (TWA):(EH40 WEL)
CAS-No. Control parameters Control parameters • Silicium CAS-No. Control parameters	10 mg/m3 20 mg/m3 7440-21-3 4 mg/m3		Time Weighted Average (TWA):(EH40 WEL) Short Term Exposure Limit (STEL):(EH40 WEL) 215-609-9
CAS-No. Control parameters Control parameters • Silicium CAS-No. Control parameters type of exposition Control parameters	10 mg/m3 20 mg/m3 7440-21-3 4 mg/m3 Respirable dust. 10 mg/m3		Time Weighted Average (TWA):(EH40 WEL) Short Term Exposure Limit (STEL):(EH40 WEL) 215-609-9 Time Weighted Average (TWA):(EH40 (UK))

Engineering measures

cobalt - vapour is released during processing.

Ensure suitable suction/aeration at the work place and with operational machinery.

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Personal protective equipment

Respiratory protection

When working without/without sufficient suction of objects:

Respirator with P3 particle filter

Hand protection

protective gloves

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.

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 white
Odour odourless

Information on basic physical and chemical properties

Melting point/range 1290 - 1390 °C

Density 8.2 - 8.4 g/cm3

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

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):

EU-GHS(P18/001) / 10.09.2010 15:17

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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 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.

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.