

Material Safety Data Sheet

according regulation (EC) No 1907/2006 (REACH)



Identification : Combilium_BSM_5
Article no.: 2192
Version : 1. Juli 2007
Print date : 14/09/2010

page 1 of 4

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

Identification of the substance or preparation:

Combilium_BSM_5

Use of the substance/preparation:

Dental alloy

Company/undertaking identification: Feguramed GmbH, Jahnstr. 2, D – 74722 Buchen-Hettingen, GERMANY

Technical information: Anwendungstechnik (Telefon +49(0)6281/5227-0)

Telephone / fax / email: +49(0)6281/5227-0 / +49(0)6281/5227-15 / E-Mail: msds@feguramed.com

02. HAZARDS IDENTIFICATION

Hazard identification and hazards to man and the environment

Inhalation of metal vapour and dust may cause sensitization.

03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

non-precious chrome-cobalt alloy for partial dentures

Hazardous ingredients

Chemical name	Concentration [% by weight]	CAS No.	Index No.	R phrases	Hazard symbols
Co	64	7440-48-4		R42/43	Xn
Cr	29	7440-47-3			
Mo	5	7439-98-7			

Ingredients with EC concentration limits

-

Please see chapter 16. OTHER INFORMATION for the wording of the above mentioned R phrases.

04. FIRST AID MEASURES

Inhalation

not applicable

Eye contact

not applicable

Skin contact

no special measures necessary

Ingestion

no special measures necessary

05. FIRE-FIGHTING MEASURES

Suitable extinguishing media

not applicable

Extinguishing media which shall not be used for safety reasons

not applicable

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

not applicable, product does not burn.

Special protective equipment for fire-fighters

-

06. ACCIDENTAL RELEASE MEASURES

Personal precautions and methods for cleaning up

not applicable

Environmental precautions

Please see chapters 08. EXPOSURE CONTROLS/PERSONAL PROTECTION and 13. DISPOSAL CONSIDERATIONS

07. HANDLING AND STORAGE

Material Safety Data Sheet

according regulation (EC) No 1907/2006 (REACH)



page 2 of 4

Identification : Combilium_BSM_5
Article no.: 2192
Version : 1. Juli 2007
Print date : 14/09/2010

Precautions for safe handling and conditions for safe storage

no special requirements

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values and/or biological limit values

-

Minimisation of exposure and exposure control

a) Equipment for individual protection

The type of equipment for individual protection has to be chosen according to concentration and quantity of hazardous compounds.

Respiratory protection

extract dust

Eye protection

safety goggles

Hand protection

not applicable

Skin protection

No protective suite or boots are necessary, if the product is used as indicated.

b) Specific hygiene measures

Inhalation of dust or metal vapor while melting and working on the alloy should be prevented. Ensure adequate suction extraction of generated dust or gases.

c) Environmental exposure controls

Please see chapters 06. ACCIDENTAL RELEASE MEASURES and 07. HANDLING AND STORAGE. No further methods are required.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: solid
Colour : silver-grey
Odour : odorless

Important health, safety and environmental information

Lower explosive limit :	Vol%	Upper explosive limit :	Vol%
Vapour pressure : (20 °C)	mbar	Vapour pressure : (50 °C)	mbar
Density : (20 °C)	8,4 g/cm ³	Bulk density : (20 °C)	g/cm ³
Viscosity : (20 °C)	mPa•s		
Water solubility: (20 °C)	insoluble g/l	pH value (20 °C)	
Boiling point / range : (1013 mbar)	°C	Setting point: (1013 hPa)	°C
Melting point:	1210-1380 °C	Solidification point:	°C
Flash point :	°C	Ignition temperature :	°C

Additional physical and chemical properties are not available.

10. STABILITY AND REACTIVITY

Conditions to avoid

Thermal decomposition: no decomposition °C

Materials to avoid

Avoid dust formation! Reactions with the crucible material possible if melt is overheated.

Hazardous decomposition products

none

11. TOXICOLOGICAL INFORMATION

none. The toxicological classification of the preparation was made according DIRECTIVE 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Conclusion from test data

No data available

Conclusion from experience

No data available

Information on ingredients

LD50 (oral, rat):	mg/kg (IUCLID)	LD50 (inhal., rat):	mg/l/4h (IUCLID)
Eye of Rabbit:		Skin of rabbit (24 h):	

12. ECOLOGICAL INFORMATION

Material Safety Data Sheet

according regulation (EC) No 1907/2006 (REACH)



Identification : Combilium_BSM_5
Article no.: 2192
Version : 1. Juli 2007
Print date : 14/09/2010

page 3 of 4

Ecotoxicity

TOC value: none
Acute bacterial toxicity:

CSB value:
Acute toxicity on fishes:

Mobility

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Results of PBT assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal and six-digit waste code according 2000/532/EC

Used material can be refined. Dispose according to the local waste disposal regulations.

Recommendation: Obey and follow local waste disposal regulations.

14. TRANSPORT INFORMATION

Transport by road / rail ADR/RID

Class :

UN number:

Proper shipping name:

Packing Group: -

Transport by sea IMDG/GGVSee

IMDG code : not applicable

UN number :

EmS:

Marine Pollutant: -

Proper shipping name:

Packing Group: -

Transport by air ICAO-TI and IATA-DGR

Class :

UN number :

Proper shipping name:

Packing Group: -

15. REGULATORY INFORMATION

Label according to EC Directive

Symbols and indications of danger

The remarks in paragraph 3, 4, 5, 7 a. 11 are not valid for the solid material, it rather reflects the properties and hazards of metal vapor and dust, respectively.

Determinant ingredient for labelling

contains:

R phrases

S phrases

Other information

EC Regulations

not applicable

Safety assessment

A safety assessment of ingredients of this preparation was not performed.

National regulations

Effects on the aquatic environment

none according to VwVwS, Annex 4 (Germany)

16. OTHER INFORMATION

Included EC Directives / Regulations

- DIRECTIVE 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
- DIRECTIVE 2006/121/EC amending Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances in order to adapt it to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency.
- REACH regulation (EC) No. 1907/2006

Non-statutory recommendations by supplier

Only for professional, industrial use – not for public, non-professional use.

Material Safety Data Sheet

according regulation (EC) No 1907/2006 (REACH)

Identification : Combilium_BSM_5
Article no.: 2192
Version : 1. Juli 2007
Print date : 14/09/2010



page 4 of 4

R phrases, which are mentioned in chapter 3

R42/43 May cause sensitisation by inhalation and skin contact.

References:

<http://www.baua.de>
<http://www.arbeitssicherheit.de>

Changes made since the last version

Revised version according regulation (EC) No 1907/2006 (REACH)

Responsible department

Safety Data Sheet, msds@feguramed.com

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any purpose other than that for which it was intended.

This does not in any way excuse the user from knowing all of the regulations covering his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfill obligations regarding hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring the existence of legal obligations, other than those mentioned, for which he is solely responsible.