

Material Safety Data Sheet

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



Identification : CS_High_Speed_Investment
Article no.: 3070
Version : 1. Juli 2007
Print date : 14/09/2010

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

Identification of the substance or preparation:

CS_High_Speed_Investment

Use of the substance/preparation:

Investment material to fabricate moulds for the casting process of dental alloys

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

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

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02. HAZARDS IDENTIFICATION

Hazard identification and hazards to man and the environment

Avoid generation of dust. Inhalation may lead to silicosis.

03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Mixture of silica, magnesium oxide and ammonium phosphate

Hazardous ingredients

Chemical name	Concentration [% by weight]	CAS No.	Index No.	R phrases	Hazard symbols
Silicium dioxide	60 - 100	14464-46-1			
Magnesium oxide	5 - 15	01309-48-4			
(NH4)H2PO4	5 - 15	7722-76-1			

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

Move exposed person to fresh air immediately

Eye contact

immediately rinse with plenty of water keeping the eyes wide open

Skin contact

wash immediately with soap and water

Ingestion

Never try to induce vomiting

05. FIRE-FIGHTING MEASURES

Suitable extinguishing media

CO2, foam, water spray, powder

Extinguishing media which shall not be used for safety reasons

strong water jet

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

This material is not combustible

Special protective equipment for fire-fighters

06. ACCIDENTAL RELEASE MEASURES

Personal precautions and methods for cleaning up

When spilled, wipe up immediately. Avoid generation and inhalation of dust!

Environmental precautions

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

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07. HANDLING AND STORAGE

Precautions for safe handling and conditions for safe storage

Store containers tightly closed; avoid contact with moist air or water.

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

yes

Eye protection

goggles

Hand protection

Skin protection

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

b) Specific hygiene measures

Don't eat, drink or smoke while working with this material. Exposure limits for silica is 0,15 mg/m³.

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: powder
Colour : white
Odour : odourless

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)	about 2 g/cm ³	Bulk density : (20 °C)	g/cm ³
Viscosity: (20 °C)	mPa•s	pH value (20 °C)	4,5
Water solubility: (20 °C)	partly soluble g/l	Setting point: (1013 hPa)	°C
Boiling point / range : (1013 mbar)	°C	Solidification point:	°C
Melting point:	°C	Ignition temperature :	°C
Flash point :	°C		

Additional physical and chemical properties are not available.

10. STABILITY AND REACTIVITY

Conditions to avoid

Thermal decomposition: Stable at ambient temperature °C

Materials to avoid

May evolve heat when mixed with acids

Hazardous decomposition products

Ammonia evolves at temp. higher than 250 C

11. TOXICOLOGICAL INFORMATION

no data available. 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 (IUCRID)	LD50 (inhal., rat):	mg/l/4h (IUCRID)
Eye of Rabbit:	may cause irritation	Skin of rabbit (24 h):	

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12. ECOLOGICAL INFORMATION

Ecotoxicity

TOC value: - CSB value: -
Acute bacterial toxicity: - 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

Mix liquid and investment powder and let the slurry harden.

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 :
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

Determinant ingredient for labelling

contains:

R phrases

S phrases

Other information

Hardens in contact with water.

EC Regulations

Product contains silicium dioxide and may lead to silicosis at prolonged exposure. Exposure limit for silica is 0,15 mg/m3!

Safety assessment

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

National regulations

Effects on the aquatic environment

not hazardous 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.

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R phrases, which are mentioned in chapter 3

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.