

# Material Safety Data Sheet

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



Identification : Feguradur\_(cold\_immersion\_hardener)  
Article no.: 2230  
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:

*Feguradur\_(cold\_immersion\_hardener)*

Use of the substance/preparation:

Cold immersion hardener for hardening and sealing the investment material

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

not known

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

aqueous solution of a polymeric polyalcohol, odour and conservation substances

Hazardous ingredients

Chemical name	Concentration [% by weight]	CAS No.	Index No.	R phrases	Hazard symbols
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Ingredients with EC concentration limits

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

## 04. FIRST AID MEASURES

Inhalation

Skin contact

wash off with water and soap

Eye contact

Ingestion

rinse with water keeping the eyes wide open, consult eye doctor

don't induce vomiting, consult doctor

## 05. FIRE-FIGHTING MEASURES

Suitable extinguishing media

not combustible

Extinguishing media which shall not be used for safety reasons

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

Special protective equipment for fire-fighters

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## 06. ACCIDENTAL RELEASE MEASURES

Personal precautions and methods for cleaning up

gives slippery layers, wipe up immediately and/or wash away with water

Environmental precautions

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

## 07. HANDLING AND STORAGE

Precautions for safe handling and conditions for safe storage

keep in a closed receptacle at room temperature. Protect against frost!

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## 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

no

#### Eye protection

goggles

#### Hand protection

yes

#### Skin protection

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

#### b) Specific hygiene measures

protective clothing; take safety precautions, which are usual when handling chemicals

#### 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: liquid  
Colour : colorless  
Odour : refreshing

### 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 )	approx. 1 g/cm <sup>3</sup>	Bulk density : ( 20 °C )	g/cm <sup>3</sup>
Viscosity : ( 20 °C )	approx. 15 mPa•s	pH value (20 °C)	approx. 5
Water solubility: ( 20 °C )	soluble g/l	Setting point: (1013 hPa)	°C
Boiling point / range : (1013 mbar)	approx. 100 °C	Solidification point:	°C
Melting point:	°C	Ignition temperature :	°C
Flash point :	> 200 °C		

Additional physical and chemical properties are not available.

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

Thermal decomposition: above 400 °C

### Materials to avoid

not known

### Hazardous decomposition products

carbon oxide, carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

physiological harmless. 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:	weak irritating	Skin of rabbit (24 h):	not irritating

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

TOC value:	CSB value:	1800 mg/g
Acute bacterial toxicity:	Acute toxicity on fishes:	LC (50) > 5000 mg/l

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## Mobility

No data available

## Bioaccumulative potential

No data available

## Other adverse effects

No data available

## Persistence and degradability

No data available

## Results of PBT assessment

No data available

## 13. DISPOSAL CONSIDERATIONS

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

Liquid: Biologically degradable in a waste treatment plant. A dried up rest can be disposed in domestic waste.

**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

Protect against frost. Store at temperatures above 9 °C!

### EC Regulations

No hazardous material according to EU regulations

### Safety assessment

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

### National regulations

#### Effects on the aquatic environment

0 - not dangerous for water; the material shows no damaging effect on environment (proven with experience over several years) 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.

R phrases, which are mentioned in chapter 3

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

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<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](mailto: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.