

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FBS EN

Revision Date: 23.11.2020

Version: 2.0/en

**fischer** 

Replaces version from: 23.11.2020

Print date: 23.11.2020

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Commercial Product Name **FBS EN**  
Unique Formulation Identifier (UFI) 5Y30-F0HC-500D-827A

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses One-component polyurethanic foam - Fire protection  
Recommended restrictions None under normal processing.  
Observe technical data sheet.

### 1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
D-72178 Waldachtal  
Telephone: +49(0)7443 12-0  
FAX: +49(0)7443 12-4222  
Email: info-sdb@fischer.de  
Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd  
Hithercroft Road  
Wallingford, Oxfordshire, OX10 9AT  
Telephone: +44 01491 827 920  
FAX: +44 01491 827 950  
Internet: www.fischer.co.uk

### 1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373

### 2.2 Label elements

Hazard pictogram



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	GHS08
Signal word	Danger
Hazardous component(s) to be indicated on label	Diphenylmethanediisocyanate, isomers and homologues
H-statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H351: Suspected of causing cancer . H373: May cause damage to organs through prolonged or repeated exposure .
P-statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P501: Dispose of contents/container to special waste treatment . P201: Obtain special instructions before use. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P284: (In case of inadequate ventilation) wear respiratory protection. P302+P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.
Further information	EUH204: Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## 2.3 Other hazards

Health hazard	No information available.
Particular information pertaining specific risk for human / environment	No information available.
Indication of danger	No information available.
Hazard precautions	No information available.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
Diphenylmethanediisocyanate, isomers and homologues	CAS No.: 9016-87-9 EC-No.: 618-498-9 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	10.0 - 30.0 %

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	Take off immediately all contaminated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Wear personal protection equipment (refer to section 8).
If inhaled	Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention	If unconscious place in recovery position and seek medical advice.
Special medical treatment	Treat symptomatically.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media                      spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder

Extinguishing media which must not be used for safety reasons                      Full water jet

### **5.2 Special hazards arising from the substance or mixture**

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases                      Heating or fire can release toxic gas.  
Fight fire with normal precautions from a reasonable distance.

### **5.3 Advice for firefighters**

Special protective equipment for firefighting                      In case of fire: Wear self-contained breathing apparatus.  
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on firefighting                      Suppress (knock down) gases/vapours/mists with a water spray jet.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions                      For non-emergency personnel  
Accidental release measures:  
Wear personal protection equipment (refer to section 8).  
Remove all sources of ignition.  
Ensure adequate ventilation, especially in confined areas.

### **6.2 Environmental precautions**

Environmental precautions                      The product should not be allowed to enter drains, water courses or the soil.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up                      Allow stiffening. Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.

### **6.4 Reference to other sections**

Reference to other sections                      Reference to other sections : 7 / 8 / 13

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling                      Keep container tightly closed.  
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.  
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion      No special measures are necessary.

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage space and container requirements              Keep/Store only in original container.  
Keep container tightly closed and dry.  
Store in accordance with local regulations.

Unsuitable materials for containers                      Keep only in original container.

Hints on storage assembly                                  Keep away from food, drink and animal feedingstuffs.

German storage class    2B (TRGS 510)

Recommended storage temperature                      +5 - 25 °C

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **8.2 Exposure controls**

Respiratory protection                                      In case of inadequate ventilation wear respiratory protection.

Hand protection    In case of contact through splashing:

Suitable material    attached disposable gloves

Remarks    Use gloves once only.

Note    The attached gloves are intended as protection against short-term use.

In case of full contact:

Suitable material    Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), Fluorinated rubber, CR (polychloroprene, chloroprene rubber)

Unsuitable material    PVC or rubber gloves are not recommended.

Material thickness    >= 0,5 mm (adjust to application and duration of use)

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Break through time	>120 min
Remarks	Replace when worn.
Note	Request information on glove permeation properties from the glove supplier.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
Eye protection	Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing
Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.
Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	red brown
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	Not applicable.
Evaporation rate [kg/(s*m <sup>2</sup> )]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-% ]	
Lower limit	No data available
Upper limit	No data available

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Vapour pressure [kPa]	< 0,0001
Vapour density	No data available
Density [g/cm <sup>3</sup> ]	1,3
Solubility	insoluble in: Water
Water solubility [g/l]	No data available
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Explosive properties	No data available
Oxidising properties	No

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Reactivity No hazardous reaction when handled and stored according to provisions. No decomposition if stored and applied as directed.

### **10.2 Chemical stability**

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions No hazardous reaction when handled and stored according to provisions.

### **10.4 Conditions to avoid**

Conditions to avoid The mixture is chemically stable under recommended conditions of storage, use and temperature.

### **10.5 Incompatible materials**

Materials to avoid Strong acids and oxidizing agents

### **10.6 Hazardous decomposition products**

Hazardous decomposition products No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

Oral toxicity [mg/kg]

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**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues			
Value	Test criterion	Test species	Source
> 10000	LD50	Rat	Company data

**Dermal toxicity [mg/kg]****Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Test species	Remarks	Source
> 9400	LD50	Rabbit	OECD 402	Company data

**Inhalative toxicity [mg/l]****Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Note	Exposure duration	Source
0,49	LC50	OECD 403	4 h	Company data

Irritant effect on skin Causes skin irritation.

Irritant effect on eyes Causes serious eye irritation.

**Irritant effect on the respiratory tract****Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Irritant	Company data

Sensitization Respiratory or skin sensitisation

Carcinogenic effects Limited evidence of a carcinogenic effect.

Mutagenicity Based on available data, the classification criteria are not met.

Reproduction toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) [mg/kg]

Remarks May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) [mg/kg]

Specific effects May cause damage to organs through prolonged or repeated exposure.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish [mg/l]

##### Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
> 1000	LC50	Brachydanio rerio (zebra-fish)	OECD Test Guideline 203	96 h	Company data

#### Toxicity to daphnia [mg/l]

##### Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
> 1000	EC50	Daphnia magna (Water flea)	24 h	OECD Test Guideline 202	Company data

#### Toxicity to algae [mg/l]

##### Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Test species	Exposure duration	Source
> 1640	ErC50:	Scenedesmus subspicatus	72 h	Company data

#### NOEC (daphnia) [mg/l]

##### Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test species	Measuring method	Exposure duration	Source
> 10	Daphnia magna (Big water flea)	OECD 202	21 d	Company data

### 12.2 Persistence and degradability

#### Biodegradability

Remarks: Poorly biodegradable.

### 12.3 Bioaccumulative potential

#### Bioaccumulation

Remarks: There are no data available on the mixture itself.

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## 12.4 Mobility in soil

Mobility

Mobility There are no data available on the mixture itself.

## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	Company data

Results of PBT and vPvB assessment This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

Further information on ecology Should not be released into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations Do not allow to enter into surface water or drains.  
Dispose of waste according to applicable legislation.  
Empty remaining contents.  
Empty packaging: Where possible recycling is preferred to disposal or incineration.  
Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Waste Code According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
The following Waste Codes are only suggestions:  
Product  
080501 - waste isocyanates cured material  
200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	No dangerous good according to ADR	No dangerous good according to IMDG	No dangerous good according to IATA
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.
UN proper shipping name		Non dangerous good	Non dangerous good

## 14.6 Special precautions for user

Precautions No special measures are necessary.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Decopaint regulation not relevant

Carcinogenic hazardous substance as per Annex II GefStoffV No

Restriction of occupation. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

### 15.2 Chemical safety assessment

Safety assessment For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

Additional regulations This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

## SECTION 16: Other information

Relevant H-phrases  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.

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H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H351: Suspected of causing cancer .  
H373: May cause damage to organs through prolonged or repeated exposure .

Wording of the hazard classes

Acute Tox.: Acute toxicity  
Skin Irrit.: Skin irritation  
Eye Irrit.: Serious eye irritation  
Skin Sens.: Skin sensitization  
Carc.: Carcinogenicity  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Acute Tox. 4; H332	Calculated
Skin Irrit. 2; H315	Calculated
Eye Irrit. 2; H319	Calculated
Resp. Sens. 1; H334	Calculated
Skin Sens. 1; H317	Calculated
Carc. 2; H351	Calculated
STOT SE 3; H335	Calculated
STOT RE 2; H373	Calculated

Recommended restrictions

None under normal processing.  
Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.