

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**FENOPUR Duett Komponente B**

Revision date: 23.04.2018

Page 1 of 10

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

FENOPUR Duett Komponente B

**Product code:**200160  
200162**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Curing agent

**1.3. Details of the supplier of the safety data sheet**

Company name:	Fenoplast Fügetechnik GmbH	
Street:	Zur Dornheck 21-23	
Place:	D-35764 Sinn-Fleisbach	
Telephone:	+49 (0) 2772 57587-0	Telefax: +49 (0) 2772 57587-20
e-mail:	info@fenoplast.de	
Internet:	http://www.fenoplast.de	
Responsible Department:	E-mail (competent person): productsafety@fenoplast.de	

**1.4. Emergency telephone number:**  
GBK GmbH +49 (0) 6132 / 84 463 (24 h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 2 of 10

### Hazard components for labelling

Diphenylmethandiisocyanate, isomers and homologues  
 Formaldehyde, oligomeric reaction products with aniline and phosgene  
 4-isocyanatosulphonyltoluene, tosyl isocyanate

**Signal word:** Danger

**Pictograms:**



### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.

### Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves and eye/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

### Special labelling of certain mixtures

EUH204	Contains isocyanates. May produce an allergic reaction.
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### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 3 of 10

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
9016-87-9	Diphenylmethandiisocyanate, isomers and homologues			20 - < 40 %
	618-498-9			
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
32055-14-4	Formaldehyde, oligomeric reaction products with aniline and phosgene			< 12,5 %
	500-079-6		01-2119457024-46	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H351 H332 H315 H319 H334 H317 H336			
4083-64-1	4-isocyanatosulphonyltoluene, tosyl isocyanate			< 0,5 %
	223-810-8	615-012-00-7	01-2119980050-47	
	Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3; H315 H319 H334 H335 EUH014			

Full text of H and EUH statements: see section 16.

### Further Information

SVHC Substances: none

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Do NOT induce vomiting. Call a physician immediately.

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

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray. alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO2).

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

In case of fire may be liberated: Gases/vapours, toxic

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 4 of 10

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Use only in well-ventilated areas.

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

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

#### **Requirements for storage rooms and vessels**

Provide for retaining containers, eg. floor pan without outflow.

#### **Advice on storage compatibility**

Do not store together with: Food and feedingstuffs

#### **Further information on storage conditions**

Avoid: Frost. heat. Protect against direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

Curing agent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

### 8.2. Exposure controls

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 5 of 10



### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Protective and hygiene measures

Wash hands before breaks and after work. Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feedingstuffs.

### Eye/face protection

Tightly sealed safety glasses.

### Hand protection

Long-term (continuous):

Recommended glove articles "Barrier 02-100" (Ansell)

Breakthrough time (maximum wearing time) 480 min

Short-term (single):

NBR (Nitrile rubber). Thickness of the glove material 0,8 mm

Breakthrough time (maximum wearing time) 15 min

Wearing time with occasional contact (splashes): 0,12 mm

To follow: Organisational measures to prevent exposure.

Protect skin by using skin protective cream.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Filter material/medium A2 (DIN EN 14387/DIN EN 141)

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid	
Colour:	brown	
Odour:	characteristic	
pH-Value:		not determined
<b>Changes in the physical state</b>		
Melting point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		> 100 °C

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 6 of 10

### Flammability

Solid: not applicable  
Gas: not applicable

### Explosive properties

No information available.

Lower explosion limits: not determined  
Upper explosion limits: not determined

### Auto-ignition temperature

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

### Oxidizing properties

Not oxidising.

Vapour pressure: < 0,1 hPa  
(at 20 °C)

Density (at 20 °C): 1,6 g/cm<sup>3</sup>

Water solubility: practically insoluble

### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: 18000 mPa·s  
(at 20 °C)

Viscosity / kinematic: not determined

Vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Odour threshold: not determined

Reacts with : Water

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Danger of polymerisation.

### 10.3. Possibility of hazardous reactions

Reacts with : Alcohols; Amines; Acid (in aqueous solution); alkali (in aqueous solution)

Violent reaction with: Water (Release of: Carbon dioxide). Danger of bursting container.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 7 of 10

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if inhaled.

#### ATEmix calculated

ATE (inhalative aerosol) 2,858 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Diphenylmethandiisocyanate, isomers and homologues				
	inhalative vapour	ATE 11 mg/l			
	inhalative aerosol	ATE 1,5 mg/l			
32055-14-4	Formaldehyde, oligomeric reaction products with aniline and phosgene				
	inhalative vapour	ATE 11 mg/l			
	inhalative aerosol	ATE 1,5 mg/l			

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (Diphenylmethandiisocyanate, isomers and homologues; Formaldehyde, oligomeric reaction products with aniline and phosgene)

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethandiisocyanate, isomers and homologues; Formaldehyde, oligomeric reaction products with aniline and phosgene; 4-isocyanatosulphonyltoluene, tosyl isocyanate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethandiisocyanate, isomers and homologues; Formaldehyde, oligomeric reaction products with aniline and phosgene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

#### STOT-single exposure

May cause respiratory irritation. (Diphenylmethandiisocyanate, isomers and homologues)

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethandiisocyanate, isomers and homologues)

#### Aspiration hazard

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

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

## SECTION 12: Ecological information

### 12.1. Toxicity

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 8 of 10

The product is not: Ecotoxic.

### **12.2. Persistence and degradability**

The product has not been tested.

### **12.3. Bioaccumulative potential**

The product has not been tested.

### **12.4. Mobility in soil**

The product has not been tested.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **12.6. Other adverse effects**

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Advice on disposal**

Dispose of waste according to applicable legislation.

#### **Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### **Waste disposal number of used product**

080411 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); adhesive and sealant sludges containing organic solvents or other hazardous substances; hazardous waste

#### **Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### **Contaminated packaging**

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

#### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

#### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

#### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

### **Inland waterways transport (ADN)**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 9 of 10

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

No information available.

#### 14.7. 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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: Diphenylmethandiisocyanate, isomers and homologues; 4-isocyanatosulphonyltoluene, tosyl isocyanate

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 3,8,9.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## FENOPUR Duett Komponente B

Revision date: 23.04.2018

Page 10 of 10

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

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

### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH014	Reacts violently with water.
EUH204	Contains isocyanates. May produce an allergic reaction.

### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*