

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Brio-Falzkleber

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

##### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : adhesives

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

Knauf Gips KG  
Am Bahnhof 7  
97346 Iphofen - Germany  
T +49 932331-0 - F +49 932331-277  
[zentrale@knauf.de](mailto:zentrale@knauf.de) - [www.knauf.de](http://www.knauf.de)  
E-mail address of competent person responsible for the SDS : [sds-info@knauf.de](mailto:sds-info@knauf.de)

Technischer Auskunft-Service Trockenbau und Boden  
T +49 (0)9001/31-1000 (siehe Abschnitt 16)  
[knauf-direkt@knauf.de](mailto:knauf-direkt@knauf.de)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : polymethylene polyphenyl isocyanate; methylenediphenyl diisocyanate, isomer mixture

Hazard statements (CLP)	: 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.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapours. P271 - Use only outdoors or in a well-ventilated area. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 - Store locked up.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.
Extra phrases	: Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polymethylene polyphenyl isocyanate	(CAS-No.) 9016-87-9 (REACH-no) 01-2119457024-46	50 - 100	Resp. Sens. 1, H334 Skin Sens. 1, H317
methylenediphenyl diisocyanate, isomer mixture	(CAS-No.) 26447-40-5 (EC-No.) 247-714-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457015-45	5 - 20	Carc. 2, H351 Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
methylenediphenyl diisocyanate, isomer mixture	(CAS-No.) 26447-40-5 (EC-No.) 247-714-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457015-45	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) STOT SE 3, H335 (C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
First-aid measures after skin contact	: After contact with skin, wash immediately with plenty of water and soap. Do not use : Thinner, solvents.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: If accidentally swallowed obtain immediate medical attention. Keep at rest.

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

No additional information available

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

No additional information available

### **SECTION 5: Firefighting measures**

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#### **5.1. Extinguishing media**

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.  
Unsuitable extinguishing media : Do not use water jet.

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

Fire hazard : In case of fire, corrosive and harmful gases come free.

#### **5.3. Advice for firefighters**

Precautionary measures fire : Wear fire/flame resistant/retardant clothing. Self-contained breathing apparatus when in close proximity to fire.  
Other information : Prevent entry to sewers and public waters.

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

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

General measures : Ensure adequate ventilation. Wear proper protective equipment.

##### **6.1.1. For non-emergency personnel**

No additional information available

##### **6.1.2. For emergency responders**

No additional information available

#### **6.2. Environmental precautions**

Prevent entry to sewers and public waters.

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

For containment : Clean spills promptly.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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

No additional information available

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

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

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not allow contact with water.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep in original containers. Keep container tightly closed and dry. Keep in a cool, well-ventilated place away from acids.  
Incompatible products : Oxidizing agent. Strong bases. Strong acids.  
Storage temperature : 15 - 25 °C

#### **7.3. Specific end use(s)**

No additional information available

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

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#### **8.1. Control parameters**

No additional information available

### 8.2. Exposure controls

#### Personal protective equipment:

Safety glasses. Gloves.

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Combined gas/dust mask with filter type	Type A - High-boiling (>65 °C) organic compounds, Type P2		



#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Pasty.
Colour	: Blue.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 200 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.2
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 4500 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with water.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Prevent moisture contact.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>polymethylene polyphenyl isocyanate (9016-87-9)</b>	
LD50 oral rat	> 10000 mg/kg (Rat, Literature study)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.49 mg/l/4h

<b>methylenediphenyl diisocyanate, isomer mixture (26447-40-5)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight (Other, Rat, Male/female, Experimental value)
LD50 dermal rabbit	> 9400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male/female, Read-across)
LC50 inhalation rat (mg/l)	0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Read-across)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>polymethylene polyphenyl isocyanate (9016-87-9)</b>	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h, Literature study)

<b>methylenediphenyl diisocyanate, isomer mixture (26447-40-5)</b>	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Read-across)
EC50 Daphnia 1	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across)
EC50 72h algae (1)	> 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus, Static system, Fresh water, Read-across)

### 12.2. Persistence and degradability

<b>polymethylene polyphenyl isocyanate (9016-87-9)</b>	
Persistence and degradability	Not readily biodegradable in water.

<b>methylenediphenyl diisocyanate, isomer mixture (26447-40-5)</b>	
Persistence and degradability	Contains non readily biodegradable component(s).

**12.3. Bioaccumulative potential**

<b>polymethylene polyphenyl isocyanate (9016-87-9)</b>	
BCF fish 1	1 (Pisces, Literature study)
Log Pow	10.46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>methylenediphenyl diisocyanate, isomer mixture (26447-40-5)</b>	
BCF fish 1	92 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Log Pow	4.51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Bioaccumulative potential	Does not contain bioaccumulative component(s).

**12.4. Mobility in soil**

<b>polymethylene polyphenyl isocyanate (9016-87-9)</b>	
Log Koc	9.078 - 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
<b>methylenediphenyl diisocyanate, isomer mixture (26447-40-5)</b>	
Ecology - soil	No (test)data on mobility of the components available.

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

<b>Component</b>	
polymethylene polyphenyl isocyanate (9016-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

- Regional legislation (waste) : This material and its container must be disposed of as hazardous waste. This material and its container must be disposed of in a safe way, and as per local legislation.
- Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

**14.6. Special precautions for user**

**- Overland transport**

Not applicable

**- Transport by sea**

Not applicable

**- Air transport**

Not applicable

**- Inland waterway transport**

Not applicable

**- Rail transport**

Not applicable

**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**

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

This safety data sheet replaces the previous version of 5/23/2016. The following changes were made:

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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.
EUH204	Contains isocyanates. May produce an allergic reaction.

# Brio-Falzkleber

## Safety Data Sheet



according to Regulation (EU) 2015/830

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Knauf SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*