

## Resinator Comp. B

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

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UFI: F300-P0FG-F00Y-G64N

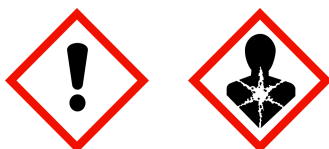
**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Barrier (Sealant)  
Adhesives**1.3. Details of the supplier of the safety data sheet**Company name: FS-BF GmbH & Co. KG  
Street: Hahnenseifener Straße 15  
Place: D-51580 Reichshof - Hahn  
Telephone: +49 (0)2297-9103-0  
e-mail: info@fsbf.com**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**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

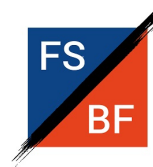
Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Diphenylmethanediisocyanate, Isomeres and Homologes

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.



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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.  
 P284 Wear respiratory protection.  
 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.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P501 Dispose of contents/container to an appropriate recycling or disposal facility.

**Special labelling of certain mixtures**

EUH204 Contains isocyanates. May produce an allergic reaction.  
 EUH210 Safety data sheet available on request.  
 As from 24 August 2023 adequate training is required before industrial or professional use.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	GHS Classification	
9016-87-9	Diphenylmethanediisocyanate, Isomeres and Homologes	>50 %
	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	

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
9016-87-9		Diphenylmethanediisocyanate, Isomeres and Homologes	>50 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)	

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

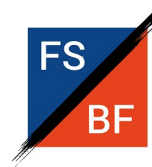
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

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**After ingestion**

Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

Irritation to respiratory tract. Conjunctival redness.

After curing, product is odourless and indifferent.

**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**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray jet. Foam. Co-ordinate fire-fighting measures to the fire surroundings.

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

Hazardous combustion products.

**5.3. Advice for firefighters**

Use suitable breathing apparatus. Protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Personal protection equipment: see section 8

**For non-emergency personnel**

Provide adequate ventilation.

**For emergency responders**

Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Clean with a cloth immediatly.

**Other information**

Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Personal protection equipment: see section 8

Disposal: see section 13

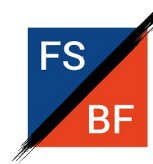
Safe handling: see section 7

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Ensure sufficient ventilation.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.



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**Advice on general occupational hygiene**

When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep/Store only in original container. Ensure adequate ventilation of the storage area. Avoid high temperatures or direct sunlight.

**Further information on storage conditions**

The product is stable under storage at normal ambient temperatures.

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

No data available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

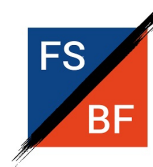
CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
9016-87-9	Diphenylmethanediisocyanate, Isomeres and Homologes		
Worker DNEL, long-term	inhalation	systemic	0,05 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	0,025 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	0,1 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	0,05 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	0,05 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0,025 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	0,1 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	0,05 mg/m <sup>3</sup>
Worker DNEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	25 mg/kg bw/day
Worker DNEL, acute	dermal	local	28,7 mg/cm <sup>2</sup>
Consumer DNEL, acute	dermal	local	17,2 mg/cm <sup>2</sup>
Consumer DNEL, acute	oral	systemic	20 mg/kg bw/day

**PNEC values**

CAS No	Name of agent	
Environmental compartment	Value	
9016-87-9	Diphenylmethanediisocyanate, Isomeres and Homologes	
Freshwater	1 mg/l	
Freshwater (intermittent releases)	10 mg/kg	
Marine water	0,1 mg/l	
Micro-organisms in sewage treatment plants (STP)	1 mg/kg	
Soil	1 mg/kg	

**Additional advice on limit values**

To date, no national critical limit values exist.



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8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection

Hand protection

Recommended glove material: E.g. butyl gloves, nitrile gloves

Recommended glove thickness: > 0,4 mm

Permeation time (maximum wear duration): > 1 h.

Skin protection

Protective clothing.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Thermal hazards

not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid:
Colour:	dark beige various
Odour:	characteristic
Odour threshold:	not determined

Test method

Changes in the physical state

Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not applicable
Softening point:	not determined
Flash point:	> 200 °C DIN 53171

Explosive properties

not determined

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 20 °C)	>200 mm <sup>2</sup> /s DIN 53019



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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	ca. 1,2 g/cm <sup>3</sup>

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

**Other safety characteristics****Further Information**

not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions.

**10.3. Possibility of hazardous reactions**

May form hazardous decomposition products when exposed to high temperatures.

**10.4. Conditions to avoid**

Avoid high temperatures or direct sunlight. Protect from moisture.

**10.5. Incompatible materials**

Acid. Oxidising agent, strong. Reducing agent, strong. Water.

**10.6. Hazardous decomposition products**

Hazardous combustion products

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if inhaled.

**ATEmix calculated**

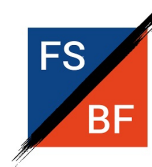
ATE (inhalation vapour) 11,58 mg/l; ATE (inhalation dust/mist) 1,579 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Diphenylmethanediisocyanate, Isomeres and Homologes				
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.



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**Sensitising effects**

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, Isomeres and Homologes)

May cause an allergic skin reaction. (Diphenylmethanediisocyanate, Isomeres and Homologes)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (Diphenylmethanediisocyanate, Isomeres and Homologes)

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. (Diphenylmethanediisocyanate, Isomeres and Homologes)

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate, Isomeres and Homologes)

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
9016-87-9	Diphenylmethanediisocyanate, Isomeres and Homologes					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Danio rerio	OECD 203	
	Acute algae toxicity	ErC50 > 1640 mg/l	72 h	Alge	OECD 201	
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna	OECD 202	
	Fish toxicity	NOEC > 10 mg/l	21 d	Daphnia magna	OECD 202	

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

No data available

**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.

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

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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**12.7. Other adverse effects**

No indication of other harmful effects.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

After curing, product can be disposed of with domestic or commercial waste. Non-cured material has to be handled as special waste.

**List of Wastes Code - 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

**List of Wastes Code - contaminated packaging**

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

**Contaminated packaging**

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID 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)**

**14.1. UN number or ID 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.

**Marine transport (IMDG)**

**14.1. UN number or ID 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.

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

**14.1. UN number or ID 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.





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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**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

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****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.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH204	Contains isocyanates. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Further Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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