

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



## BLOCK BOND® HOOF ADHESIVE Polyol/ KLAUENKLEBSTOFF Polyol

Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 1 of 11  
Language: en-IE

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

#### 1.1 Product identifier

Trade name: BLOCK BOND® HOOF ADHESIVE Polyol/ KLAUENKLEBSTOFF Polyol

This safety data sheet pertains to the following product:  
BLOCK BOND® HOOF ADHESIVE Polyol

UFI: W2N0-S06D-H00N-UH5J

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

General use: Polyol component for a 2-component adhesive  
Reserved for industrial and professional use.

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

Company name: WIKO Klebetechnik Sp. z o.o.  
Street/POB-No.: ul. Ekonomiczna 8  
Postal Code, city: PL-42-271 Czestochowa  
WWW: www.gluetec-group.com  
E-mail: info.pl@gluetec-group.com  
Telephone: +48 (0) 34 372 58 58  
Telefax: +48 (0) 34 371 11 14

Department responsible for information:  
Telephone: +48 (0) 34 372 58 58, E-mail: info.pl@gluetec-group.com

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315	Causes skin irritation.
Eye Irrit. 2; H319	Causes serious eye irritation.
Skin Sens. 1; H317	May cause an allergic skin reaction.
Aquatic Chronic 3; H412	Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word: **Warning**

Hazard statements:	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H412	Harmful to aquatic life with long lasting effects.

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Material number HOOF-ADHESIVE\_POLYOL

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Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 2 of 11  
Language: en-IE

Precautionary statements:	P261	Avoid breathing mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash it before reuse.

### Special labelling

Text for labelling:

Contains Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester and Amines, polyethylenepoly-, triethylenetetramine fraction.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-0000017942-65-xxxx EC No. 433-260-2 CAS 168253-59-6	Aspartic acid, N,N'-(2-methyl-1,5-pentanediyl)bis-, 1,1',4,4'-tetraethyl ester Aquatic Chronic 3; H412.	60 - 90 %
REACH 01-0000017556-64-xxxx EC No. 429-270-1 CAS 136210-30-5	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester Skin Sens. 1; H317. Aquatic Chronic 3; H412.	5 - 15 %
REACH 01-2119487919-13-xxxx EC No. 292-588-2 CAS 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction Acute Tox. 4; H302. Acute Tox. 4; H312. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Chronic 3; H412. (EUH071).	< 3 %
EC No. 210-819-7 CAS 623-91-6	Diethyl fumarate Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Dam. 1; H318. STOT SE 3; H335.	< 1 %

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.  
Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Seek medical attention if problems persist.

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Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 3 of 11  
Language: en-IE

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

### 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 jet, carbon dioxide, foam and 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

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Use fine water spray to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## SECTION 6: Accidental release measures

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

Avoid breathing mist/vapours/spray. Avoid contact with the substance. If possible, eliminate leakage.

Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

### 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) and place in closed containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



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Material number HOOF-ADHESIVE\_POLYOL

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Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 4 of 11  
Language: en-IE

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges.

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

Requirements for storerooms and containers:

Keep container dry, tightly closed and store at cool and aired place. Keep only in original container. Protect from heat and direct sunlight. Store containers in upright position.

Hints on joint storage:

Do not store together with peroxides or heavy metal salts.  
Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Additional information:

Contains no substances with occupational exposure limit values.

DNEL/DMEL:

Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:

DNEL workers, long-term, inhalative, systemic: 50 mg/m<sup>3</sup>  
DNEL workers, short-term, inhalative, systemic: 200 mg/m<sup>3</sup>  
DNEL workers, long-term, dermal, systemic: 7 mg/kg bw/d  
DNEL consumers, long-term, inhalative, systemic: 8.7 mg/m<sup>3</sup>  
DNEL consumers, short-term, inhalative, systemic: 8.7 mg/m<sup>3</sup>  
DNEL consumers, long-term, dermal, systemic: 2.5 mg/kg bw/d  
DNEL consumers, short-term, dermal, systemic: 2.5 mg/kg bw/d  
DNEL consumers, long-term, oral, systemic: 2.5 mg/kg bw/d  
DNEL consumers, short-term, oral, systemic: 2.5 mg/kg bw/d

Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester:

DNEL workers, long-term, inhalative, systemic: 28 mg/m<sup>3</sup>  
DNEL workers, short-term, inhalative, systemic: 112 mg/m<sup>3</sup>  
DNEL workers, long-term, dermal, systemic: 4 mg/kg bw/d  
DNEL consumers, long-term, inhalative, systemic: 4.8 mg/m<sup>3</sup>  
DNEL consumers, short-term, inhalative, systemic: 4.8 mg/m<sup>3</sup>  
DNEL consumers, long-term, dermal, systemic: 1.4 mg/kg bw/d  
DNEL consumers, short-term, dermal, systemic: 1.4 mg/kg bw/d  
DNEL consumers, long-term, oral, systemic: 1.4 mg/kg bw/d  
DNEL consumers, short-term, oral, systemic: 1.4 mg/kg bw/d

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



## BLOCK BOND® HOOF ADHESIVE Polyol/ KLAUENKLEBSTOFF Polyol

Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 5 of 11  
Language: en-IE

PNEC: Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:  
PNEC water (freshwater): 0.0417 mg/L  
PNEC water (marine water): 0.00417 µg/L  
PNEC sediment (freshwater): 2.24 mg/kg  
PNEC sediment (marine water): 0.22 mg/kg  
PNEC soil: 0.42 mg/kg w  
PNEC sewage treatment plant: 320 mg/L  
Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester:  
PNEC water (freshwater): 0.13 µg/L  
PNEC water (marine water): 0.013 µg/L  
PNEC sediment (freshwater): 0.21 mg/kg  
PNEC sediment (marine water): 0.02 mg/kg  
PNEC soil: 0.1 mg/kg w  
PNEC sewage treatment plant: 31.1 mg/L

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection.  
Respiratory protection: A2/P2 or better, depending on the operational load.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to EN 374.  
Glove material: PE/EVAL/PE  
Breakthrough time: >= 480  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures: Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place. Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	colourless
Odour:	No data available
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



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Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 6 of 11  
Language: en-IE

Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	approx. 105 °C (Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester)
Decomposition temperature:	approx. 115 °C (Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester)
pH:	9
Viscosity, kinematic:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	at 25 °C: approx. 3.7 log P(o/w) (Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	No data available
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight.

### 10.5 Incompatible materials

peroxides, heavy metal salts

### 10.6 Hazardous decomposition products

Thermal decomposition:	No decomposition when used properly. approx. 115 °C (Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester)
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## BLOCK BOND® HOOF ADHESIVE Polyol/ KLAUENKLEBSTOFF Polyol

Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 7 of 11  
Language: en-IE

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 2,000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 2,000 mg/kg.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 5 mg/L.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

#### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:  
LD50 rat, oral: > 2,000 mg/kg (OECD 423)  
LC50 rat, inhalative (dust/mist): > 4.923 mg/L/4h (OECD 403)  
Assessment, acute inhalation toxicity: no

Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester:  
LD50 rat, oral: > 2,000 mg/kg  
LD50 Rabbit, dermal: > 2,000 mg/kg  
LC50 rat, inhalative (dust/mist): > 4.224 mg/L/4h (OECD 403)  
Assessment, acute inhalation toxicity: no

#### Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



## BLOCK BOND® HOOF ADHESIVE Polyol/ KLAUENKLEBSTOFF Polyol

Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 8 of 11  
Language: en-IE

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:  
Fish toxicity:  
LC50 Danio rerio (zebrafish):  $\geq 87$  mg/L/96h (Directive 67/548/EEC, Annex V, C.1.)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea):  $\geq 96.9$  mg/L/48h

Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester:  
Fish toxicity:  
LC50 Danio rerio (zebrafish): 66 mg/L/96h (OECD 203)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 88.6 mg/L/48h  
NOEC Daphnia magna (Big water flea):  $> 0.01$  mg/L/21d

#### 12.2 Persistence and degradability

Further details: Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:  
Biodegradation: 30%/28 d (Directive 67/548/EEC Annex V, C.4.E.)  
Not easily bio-degradable.

Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester:  
Biodegradation: 13%/28 d (OECD 301F)  
Not easily bio-degradable.

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF): Information about Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester:  
BCF: 128.3

Information about Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester:  
BCF: 1,872  
Accumulation in organisms is not to be expected.

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other dangerous substances  
\* = Evidence for disposal must be provided.



# SAFETY DATA SHEET

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Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
Replaces version: 1.1

Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 9 of 11  
Language: en-IE

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

### Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

### 14.6 Special precautions for user

Only dangerous if carried on tank-ships.  
Protect from humidity. Sensitive to heat and warmth  
Keep away from food, drink and animal feedingstuffs.  
Do not store together with acids or bases.

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

# SAFETY DATA SHEET

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Material number HOOF-ADHESIVE\_POLYOL

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Revision date: 24/2/2023  
Date of print: 9/5/2023

Page: 10 of 11  
Language: en-IE

### SECTION 15: Regulatory information

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

##### National regulations - EC member states

##### Labelling of packaging with <= 125mL content



Signal word:

**Warning**

Hazard statements:

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

### SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H319 = Causes serious eye irritation.  
H412 = Harmful to aquatic life with long lasting effects.  
H302 = Harmful if swallowed.  
H312 = Harmful in contact with skin.  
H314 = Causes severe skin burns and eye damage.  
H318 = Causes serious eye damage.  
EUH071 = Corrosive to the respiratory tract.  
H335 = May cause respiratory irritation.

Reason of change:

General revision

Date of first version:

11/10/2021

Department issuing data sheet:

see section 1: Department responsible for information

# SAFETY DATA SHEET

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GLUETEC GROUP

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Material number HOOF-ADHESIVE\_POLYOL

Version: 1.2  
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Date of print: 9/5/2023

Page: 11 of 11  
Language: en-IE

### Abbreviations and acronyms:

Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
Eye Irrit.: Eye irritation  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
log P(o/w): Partition coefficient: octanol/water  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Corr.: Skin corrosion  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
STOT SE: Specific target organ toxicity - single exposure  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at  
<http://sumdat.net/r324bm4>

