

SAFETY DATA SHEET

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



BLOCK BOND® FAST HOOF ADHESIVE Polyol / KLAUENKLEBSTOFF Polyol

Material number HOOF-ADHESIVE-FAST_POLYOL

Version: 1.0
Replaces version: 0.0

Revision date: 6/10/2023
Date of print: 18/10/2023

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Language: en-IE

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

1.1 Product identifier

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

UFI: NA20-M08Y-4007-PQTD

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)

Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash hands and face thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

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Special labelling

EUH208 Contains Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester. May produce an allergic reaction.

Text for labelling: Reserved for industrial and professional use.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.

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-pentanediy)bis-, 1,1',4,4'-tetraethyl ester Aquatic Chronic 3; H412.	< 80 %
EC No. 203-041-4 CAS 102-60-3	1,1',1'',1'''-(Ethylenedinitri)l)tetra-2-propanol Eye Irrit. 2; H319.	10 - 15 %
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.	< 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.
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.

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4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.
May cause allergic reactions in already sensitized persons.

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.
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.

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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:

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/m³
DNEL workers, short-term, inhalative, systemic: 200 mg/m³
DNEL workers, long-term, dermal, systemic: 7 mg/kg bw/d
DNEL consumers, long-term, inhalative, systemic: 8.7 mg/m³
DNEL consumers, short-term, inhalative, systemic: 8.7 mg/m³
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

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 mg/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

8.2 Exposure controls

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

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Personal protection equipment

Occupational exposure controls

- Respiratory protection: In case of inadequate ventilation wear respiratory protection. 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 BS EN 374.
Glove material: PE/EVAL/PE
Breakthrough time: \geq 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
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:	No data available
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

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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

No data available

10.6 Hazardous decomposition products

No decomposition when used properly.
Thermal decomposition: approx. 115 °C (Aspartic acid, N,N'-(2-methyl-1,5-pentanediy)bis-, 1,1',4,4'-tetraethyl ester)

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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: Lack of data.

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

Sensitisation to the respiratory tract: Lack of data.

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

Contains Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester. May produce an allergic 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: None

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

Symptoms

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

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): >= 87 mg/L/96h (Directive 67/548/EEC, Annex V, C.1.)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): >= 96.9 mg/L/48h

Algae toxicity:

ErC50 Scenedesmus subspicatus: > 41.7 mg/L/72h (Richtlinie 67/548/EWG, Anhang V, C.3.)

NOEC Scenedesmus subspicatus: 12.8 mg/L/72h (Richtlinie 67/548/EWG, Anhang V, C.3.)

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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 (Richtlinie 67/548/EWG, Anhang V, C.4.E.)
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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

None

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.

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

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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

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:

H412

Harmful to aquatic life with long lasting effects.

EUH208

Contains Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester. May produce an allergic reaction.

Precautionary statements:

not applicable

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:

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

EUH208 = Contains Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester.
May produce an allergic reaction.

H317 = May cause an allergic skin reaction.

Date of first version:

6/10/2023

Department issuing data sheet:

see section 1: Department responsible for information

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Abbreviations and acronyms:

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 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 Sens.: Skin sensitisation
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/u4gpszu>

