

1 Identification of the substance or preparation and the company

1.1 Product identifier

- Trade name: PROBAU ETICS ADHESIVE FOAM

1.2 Relevant identified uses of the substance or preparation, and uses advised against

No further relevant information is available.

Use of the substance/mixture

Polyurethane adhesive for insulation panels, used for fixing insulation materials with the aid of a foam gun

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BAHAG AG
Postfach 10 05 61
68005 Mannheim
GERMANY

Further information obtainable from:

Service Hotline:
0049 (0)800/10163 70
www.probau.eu

1.4 Emergency telephone number: Poison Control Centre 030/19240

2 Hazards identification

2.1 Classification of the substance or material

Classification according to Regulation (EC) No. 1272/2008

Flam. Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Carc. 2	H351	Suspected of causing cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4	H332	Harmful if inhaled.
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.
STOT SE 3	H335	May cause respiratory irritation.

2.2 Label elements

Labelling in accordance with Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP Regulation.

Hazard pictograms:



GHS02 GHS07 GHS08

• **Signal word** Danger

Hazard components for labelling:

Diphenylmethane diisocyanate, isomers and homologues

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

- H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

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- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 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.
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P261 Avoid breathing spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing.
 P285 In case of inadequate ventilation wear respiratory protection.
 P302+P352 IF ON SKIN: Wash the skin with plenty of water and soap.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P314 Get Medical advice/attention if you feel unwell.
 P410+P412 Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with the local/regional/national/international regulations.

• Other information

Contains isocyanates. May produce an allergic reaction.

• 2.3 Other hazards**• Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients**• 3.2 Chemical characteristics Mixtures**

- **Description:** Mixture made up of the following substances with non-hazardous admixtures.

• Hazardous constituents:		
CAS: 9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	45-50%
	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 13674-84-5	Tris (2-chloropropyl) phosphate	1-10%
	Aquatic Chronic 3, H412	
CAS: 115-10-6 EINECS: 204-065-8	Dimethyl ether	1-10%
	Flam. Gas 1, H220; Press. Gas, H280	
CAS: 75-28-5 EINECS: 200-857-2	Isobutane	1-5%
	Flam. Gas 1, H220; Press. Gas, H280	

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Since the first symptoms of poisoning sometimes occur hours later, medical monitoring is necessary for at least 48 hours after an accident.

- Following inhalation:

Provide plenty of fresh air and call a doctor, as a safety precaution.

If the person is unconscious, keep him/her in the recovery position during waiting or transporting.

- Following skin contact:

Consult a doctor if skin irritation persists.

Wash the skin immediately with water and soap and rinse well.

- Following eye contact:

Rinse the eyes for several minutes under running water, holding the eyelids open. Consult a doctor if discomfort persists.

- Following ingestion: Consult a doctor if discomfort persists.**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information is available.**- 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information is available.

5 Firefighting measures**- 5.1 Extinguishing media****- Suitable extinguishing media:**

Foam, CO₂, sand, extinguishing powder.

Do not use water.

- Extinguishing media that are unsuitable due to safety reasons: Water**- 5.2 Special hazards arising from the substance or mixture**

In a fire, the following substances can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

- 5.3 Advice for firefighters**- Special protective equipment:** Use breathing apparatus.**- Further information**

Use a water spray jet to cool down any endangered containers.

Fire residues and contaminated extinguishing water must be disposed of in accordance with the official regulations.

6 Accidental release measures**- 6.1 Personal precautions, protective equipment and emergency procedures**

Keep sources of ignition away.

Ensure that the area is adequately ventilated.

Wear personal protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Do not allow the product to enter the sewer system or water bodies.

If the product enters the sewer system or a water body, inform the relevant authorities.

Do not allow the product to enter the sewer system/surface water/groundwater.

- 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste in accordance with Section 13.

Ensure that the area is adequately ventilated.

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Do not wash away with water or aqueous cleaning agents.

- **6.4 Reference to other sections**

For information on safe handling, see Section 7.

For information on personal protective equipment, see Section 8.

For information on disposal, see section 13.

7 Handling and storage

- **7.1 Precautions for safe handling**

Provide suitable extraction systems at the processing machines. Ensure good ventilation/extraction at the workplace.

- **Measures to prevent fire and explosion:**

Keep sources of ignition away - do not smoke. Take measures to prevent the build up of electrostatic charges.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements for storage rooms and vessels:**

Store the materials only in their original packaging. The official regulations for the storage of pressurised gas containers must be observed.

- **Storing with other substances:** Store separately from oxidising agents.

- **Further information on storage conditions:**

Keep cool. Heating up results in an increase in pressure and could cause containers to burst.

Protect against air humidity and water.

Keep containers tightly closed.

Store in well-sealed containers in cool and dry conditions.

- **Storage class:**

- **Classification in accordance with the German Health and Safety at Work Act (Betriebssicherheitsverordnung, BetrSichV): -**

- **7.3 Specific end use(s)** No further relevant information is available.

• 8 Exposure controls/personal protection

- **Additional instructions regarding the design of technical systems:** No further information, see section 7.

- **8.1 Control parameters**

• Constituents with workplace-related limit values that require monitoring:	
115-10-6 Dimethyl ether	
TLV	1900 mg/m ³ , 1000 ml/m ³
TLV (TRGS 900)	1900 mg/m ³ , 1000 ml/m ³
	DFG

- **Additional information:** The lists valid during preparation were used as a basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protection and hygiene measures:**

Store separately from foodstuffs, beverages and animal feed.

Take off contaminated, soaked clothing immediately.

Hands must always be washed before breaks and after finishing work.

Do not breathe in gas/vapour/spray.

Avoid contact with eyes and skin.

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In the case of short-term or low exposure, wear breathing filter apparatus; for longer term or more intensive exposure, wear self-contained breathing apparatus.

Hand protection:

Protective gloves

The glove material must be impermeable and resistant to the product/substance/preparation.

Due to the lack of tests, no recommendations can be given regarding suitable glove material for the product/preparation/chemical mixture.

The glove material should be selected according to its breakthrough times, permeation rates and degradation.

Glove material

The choice of suitable gloves depends not only on the type of material but also on other qualities, which may vary from manufacturer to manufacturer. Since this product is a preparation consisting of several substances, the resistance of the glove material cannot be predicted and must therefore be tested before use.

Breakthrough time of the glove material

The exact breakthrough time must be ascertained from the glove manufacturer and observed.

Eye protection:

Closely fitting protective goggles

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties****General information****Appearance:**

Form:	Aerosol
Colour:	In accordance with the product description
Odour:	Characteristic

Changes of state

Melting point/range:	Not determined.
Initial boiling point and boiling range:	Not applicable for aerosols.

Flash point: -21°C

Flammability (solid, gas): Not applicable.

Ignition temperature: 199 °C

Decomposition temperature: Not determined.

Auto-ignition: The product does not spontaneously ignite.

Explosion hazard: Potentially explosive when heated.

Explosion limits:

Lower:	3.0 vol%
Upper:	18.6 vol%

Vapour pressure: Not determined.

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• Density:	Not determined.
• Solubility in/miscibility with water:	Insoluble.
• Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
• Solvent content: VOC (EU)	13.3 %
• 9.2 Other information	No further relevant information is available.

10 Stability and reactivity• **10.1 Reactivity**• **10.2 Chemical stability**• **Thermal decomposition/Conditions to avoid:**

No decomposition, provided that the product is used properly and for its intended purpose.

• **10.3 Possibility of hazardous reactions**

Contact with water releases flammable gasses.

• **10.4 Conditions to avoid** No further relevant information is available.• **10.5 Incompatible materials:** No further relevant information is available.• **10.6 Hazardous decomposition products:**

Hydrogen cyanide (prussic acid)

Carbon monoxide

Nitrogen oxides (NO_x)

11 Toxicological information• **11.1 Information on toxicological effects**• **Acute toxicity:**• **Primary irritant effect:**• **On skin:** Irritating to skin and mucous membranes.• **On eyes:** Irritant effect.• **Sensitisation:**

Sensitisation possible if inhaled.

Sensitisation possible if in contact with skin.

• **Additional toxicological information:**

Based on the calculation method described in the latest version of the EC directive on dangerous preparations, the product is associated with the following risks:

Injurious to health

Irritant

• **CMR effects (carcinogenic, mutagenic and reprotoxic effect)** Carc. 2**12 Ecological information**• **12.1 Toxicity**• **Aquatic toxicity:** No further relevant information is available.• **12.2 Persistence and degradability** No further relevant information is available.• **12.3 Bioaccumulative potential** No further relevant information is available.

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- **12.4 Mobility in soil** No further relevant information is available.
- **Further ecological information:**
- **General information:**
Water hazard class 1 (self-assessment): Slightly harmful to water
Do not allow the undiluted product or larger quantities of the product to be released into the groundwater, water courses or sewers.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 other adverse effects** No further relevant information is available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Do not dispose of with the normal household waste. Do not allow the product to enter the sewer system.
- **Contaminated packaging:**
- **Recommendation:** Disposal in accordance with the official regulations.

14 Transport information

<ul style="list-style-type: none"> • 14.1 UN number • ADR, IMDG, IATA 		UN1950
<ul style="list-style-type: none"> • 14.2 UN proper shipping name • ADR • IMDG • IATA 		1950 COMPRESSED GAS CONTAINER AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) • ADR • Class • Danger label 		2 5F gases 2.1
<ul style="list-style-type: none"> • IMDG, IATA • Class • Label 		2.1 2.1
<ul style="list-style-type: none"> • 14.4 Packing group • ADR, IMDG, IATA 		Not applicable
<ul style="list-style-type: none"> • 14.5 Environmental hazards: • Marine pollutant: 		No
<ul style="list-style-type: none"> • 14.6 Special precautions for user • EMS number: 		Warning: Gases F-D,S-U
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 		Not applicable.

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Transport/Other applicable information

ADR

Limited quantity (LQ)

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UN "Model Regulation":

UN1950, COMPRESSED GAS CONTAINER, 2.1

15 Regulatory information

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

- National regulations:

- Classification in accordance with the German Health and Safety at Work Act

(Betriebssicherheitsverordnung, BetrSichV): -

- Technical instructions regarding air (Technische Anleitung Luft):

Class	proportion
I	50.0
NK	5.0

- Water hazard class (Wassergefährdungsklasse): WGK 1 (self-assessment): Slightly harmful to water.

- 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16 Other information

The information in this document is based on our knowledge at the time of writing. It does not represent a guarantee of product properties, however, and does not establish a contractual relationship.

- Relevant statements

H222 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

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.

H412 Harmful to aquatic life with long lasting effects.