

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

- **1.1 Product identifier**
- **Trade name:** PROBAU PRO Pistolenschaum
- **Article number:** 27268 (SDB-Nr.: 27280L)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesive, Sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
quick-mix Gruppe GmbH & Co. KG
Mühlenschweg 6
D-49090 Osnabrück
- **Further information obtainable from:**
Abteilung: Technische Beratung
Telefon: +49 (0)541 601-601
E-Mail: info@quick-mix.de
- **1.4 Emergency telephone number:**
Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: (0551) 19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02









- **Signal word** Danger
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**
P102 Keep out of reach of children.
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 Pressurized container: Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **Additional information:**
Contains isocyanates. May produce an allergic reaction.
- **2.3 Other hazards** If ventilation is insufficient and/or use could result in explosive/flammable mixtures.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures****Dangerous components:**

CAS: 115-10-6	dimethyl ether	10 - < 25%
EINECS: 204-065-8	 F+ R12	
	 Flam. Gas 1, H220	
CAS: 75-28-5	isobutane	2.5 - < 10%
EINECS: 200-857-2	 F+ R12	
	 Flam. Gas 1, H220	
CAS: 74-98-6	propane liquefied	2.5 - < 10%
EINECS: 200-827-9	 F+ R12	
	 Flam. Gas 1, H220	
CAS: 6425-39-4	2,2'-Dimorpholinyl-diethylether	1 - < 2.5%
EINECS: 229-194-7	 Xi R36/38	
	 Eye Irrit. 2, H319	

• **Additional information:** Text for R, H and EUH Statements: see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Move affected persons out of hazard area. In event of accident or illness consult physician immediately (if possible present instructions for use or safety data sheet).

• **After inhalation:** Provide for fresh air. If breathing is irregular or arrested, start artificial respiration.

After skin contact:

Upon contact with skin wash off immediately with large quantities of water and soap. In event of skin irritation consult physician.

After eye contact:

In event of contact with eyes, rinse immediately 10 to 15 minutes with running water and lids opened slightly. Thereafter contact eye specialist.

• **After swallowing:** Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Danger! Hardened foam can stick to skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

First aid, decontamination and treatment of symptoms.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

• **Suitable extinguishing agents:** Carbon dioxide(CO₂), foam, extinguishing powder

• **For safety reasons unsuitable extinguishing agents:** Full water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire the following products can form: Carbon monoxide Carbon dioxide (CO₂). Hydrogen cyanide (prussic acid).

Vapors can form an explosive mixture with air.

• **5.3 Advice for firefighters** Do not breath gases from explosions or fires.

• **Protective equipment:** Wear breathing apparatus independent of ambient air and chemical protective suit.

Additional information

Use water spray jet to protect humans and for cooling tanks in hazard area. Collect contaminated extinguishing water separately. Do not allow to reach sewer or bodies of water.

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

Ensure adequate ventilation

Eliminate all sources of ignition.

Avoid contact with skin, eyes and clothing.

Do not inhale vapors/aerosols.

6.2 Environmental precautions:

Do not allow to reach sewer or bodies of water. Do not allow to soak into subsurface/soil.

• **6.3 Methods and material for containment and cleaning up:** Ventilate well. Allow to solidify. Pick up mechanically.

6.4 Reference to other sections

Treat material picked up or absorbed as specified in Section 'Disposal'

Handling, personal protective equipment: See Safety Precautions under Points 7 and 8.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Provide for sufficient ventilation and punctual evacuation at critical points. Do not used in closed rooms.
- **Information about fire - and explosion protection:**
Container under pressure. Protect against sun rays and temperatures above 50 °C. Do not open with force or incinerate. Do not spray into flame or on glowing objects. Keep away from sources of ignition - no smoking. Keep away from children.
Vapors can form explosive mixtures with air. Take measures to prevent electrostatic charging.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store container in cool, well ventilated location.
- **Information about storage in one common storage facility:** Do not store together with: Oxidizing agents
- **Further information about storage conditions:**
Protect against sun rays and do not expose to temperatures greater than 50 °C/122 °F. Recommended storage temperature: 15 - 23 °C. Storage above 23 °C significantly reduces shelf life, depending on temperature and duration.
- **Storage class:** in compliance with TRGS 510: 2B
- **7.3 Specific end use(s)** No applicable

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **Ingredients with limit values that require monitoring at the workplace:**
- | | | |
|----------------------------------|------------------------|--------------------|
| 115-10-6 dimethyl ether | | |
| 1000 ppm | 1900 mg/m ³ | 8(II) Spitzenbegr. |
| 75-28-5 isobutane | | |
| 1000 ppm | 2400 mg/m ³ | 4(II) Spitzenbegr. |
| 74-98-6 propane liquefied | | |
| 1000 ppm | 1800 mg/m ³ | 4(II) Spitzenbegr. |
- **Additional information:** -
 - **8.2 Exposure controls**
 - **Personal protective equipment:**
Select personal protective equipment as required for specific workplace in consideration of concentration and quantity of hazardous substances. Clarify resistance to chemicals with supplier.
 - **General protective and hygienic measures:**
Wash hands before breaks and at end of work. Do not eat, drink, smoke, or sniff at workplace. Remove contaminated, saturated clothing immediately.
 - **Respiratory protection:**
Breathing protection required when: ventilation insufficient.
Suitable breathing protection equipment: Gas filter device (DIN EN 141).
 - **Protection of hands:**
Suitable material: Butyl rubber.
Select version of chemically resistant gloves to suit specific workplace depending on concentration and quantity of hazardous substances.
 - **Eye protection:** Wear protective protective goggles or face protection.
 - **Body protection:** Wear anti-static shoes and work clothing.
 - **Limitation and supervision of exposure into the environment**
See Chapter 7. Measures going beyond this are not required.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Aerosol
- **Colour:** White
- **Odour:** Characteristic
- **pH-value:** not applicable
- **Change in condition**
- **Melting point/Melting range:** not applicable
- **Boiling point/Boiling range:** not applicable
- **Flash point:** Not applicable.
- **Ignition temperature:** > 230 °C

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- **Self-igniting:** No information available.
- **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.
- **Lower:** 1.5 Vol %
- **Upper:** 26.2 Vol %
- **Vapour pressure:** not specified
- **Density:** Not determined.
- **Vapour density** not determined
- **Evaporation rate** Unknown
- **Solubility in / Miscibility with water:** Practically insoluble
- **Partition coefficient (n-octanol/water):** not determined
- **Viscosity:**
- **Dynamic:** not applicable
- **Kinematic:** not applicable
- **9.2 Other information** None

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available for mixture.
- **10.2 Chemical stability** Product is stable when stored at normal ambient temperatures.
- **10.3 Possibility of hazardous reactions**
Exothermic reactions with: Oxidizing agents, strong.
Formation of explosive/inflammable vapor/air mixtures possible when used.
- **10.4 Conditions to avoid**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not expose to temperatures greater than 50 °C. Heating increases pressure and can pose a hazard of bursting.
- **10.5 Incompatible materials:** Exothermic reactions with: Oxidizing agents, strong.
- **10.6 Hazardous decomposition products:**
Hazardous products of decomposition: Carbon monoxide. Carbon dioxide. Hydrogen cyanide (prussic acid).

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
Toxicokinetics, metabolism and distribution
No data available for mixture.
 - **Acute toxicity**
 - **LD/LC50 values relevant for classification:**
-
- 115-10-6 dimethyl ether**
Inhalative LC50/4 h 309 ppm (Ratte)
- 6425-39-4 2,2'-Dimorpholinyl-diethylether**
Oral LD50 2020 mg/kg (Ratte)
Dermal LD50 3030 mg/kg (Kaninchen)
- **Primary irritant effect:**
 - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** 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** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity** No data available for mixture.
 - **Aquatic toxicity:**
-
- 115-10-6 dimethyl ether**
EC50/48h > 4.4 mg/l (Daphania magna (großer Wasserfloh)) (Akute Crustaceatoxizität)
ErC50/96h 154.9 mg/l (-) (Akute Algentoxizität)
LC50/96h > 4.1 mg/l (Gu) (Akute Fischtoxizität)

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6425-39-4 2,2'-Dimorpholinyldiethylether

LC50/96h > 2150 mg/l (-) (Akute Fischtoxizität)

- **12.2 Persistence and degradability** No data available for mixture.

- **12.3 Bioaccumulative potential**

No data available for mixture.

n-octanol/water partition coefficient

CAS-Nr.	Designation	Log Pow
115-10-6	Dimethylether	0,1
75-28-5	Isobutan	2,8
74-98-6	Propan	2,36
6425-39-4	2,2'-Dimorpholinyldiethylether	0,5

- **12.4 Mobility in soil** No data available for mixture.

- **Additional ecological information:**

According to the criteria specified in the EC classification and characterization "Environmentally hazardous" (93/21/EEC), the substance/product does not require identification as environmentally hazardous.

- **12.5 Results of PBT and vPvB assessment** No data available for mixture.

- **PBT:** No data available for mixture.

- **vPvB:** No data available for mixture.

- **12.6 Other adverse effects** None

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation** Disposal according to official regulations.

- **Waste disposal key:**

Product Waste Code

160504 Wastes not listed elsewhere in catalog; Gases and used chemicals in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Product Residue Waste Code

170203 Wastes from construction and demolition (including excavation of contaminated locations); Wood, glass and plastics; plastics

Contaminated Packaging Waste Code

080409 Wastes from processing, preparations, distribution and application of coatings (inks, paints, enamel), adhesives, sealants and printing inks; Wastes from processing, preparations, distribution and application of adhesives and sealants (including water-soluble substances); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

In Germany return at no additional cost by PU-Dosen-Recycling GmbH & Co. BetriebsKG (PDR), Am alten Sägewerk 3, D-95349 Thurnau. Request and pick-up: Tel. 0800-7836736 or Fax 0800-7836737.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

1950

- **14.2 UN proper shipping name**

- **ADR**

1950 AEROSOLS

- **IMDG**

AEROSOLS

- **IATA**

AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

2

- **ADR**



- **Class**

2 Gases.

- **Label**

2.1

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• **IMDG**• **Class** 2 Gases.• **IATA**

• Class	2.1
• 14.4 Packing group	
• ADR, IMDG, IATA	Void
• 14.5 Environmental hazards:	ENVIRONMENTALLY HAZARDOUS: No
• Marine pollutant:	-
• 14.6 Special precautions for user	See Chapter 6 - 8 Warning: Gases. F-D,S-U
• EMS Number:	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not relevant
<hr/>	
• ADR	
• Limited quantities (LQ)	1 L
• Transport category	2
• Tunnel restriction code	D
• UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulations
Specification to VOC Directive: 25.4 %
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **National regulations:**
- **Information about limitation of use:** -
- **15.2 Chemical safety assessment:**
Substance safety assessments have not been performed for substances in this mixture.
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet correspond to our knowledge at the time of printing to the best of our knowledge. This information is intended to serve as a reference for safe handling, storage, processing, transport and disposal of the product specified in this safety data sheet This information does not necessarily apply to other products. If this product is blended, mixed, processed or treated with other products, the information in this safety data sheet cannot be applied to the resulting new material, unless otherwise expressly stipulated.

• **Relevant phrases**

H222 Extremely flammable aerosol.
H229 Container under pressure. Can burst when heated.
EUH204 Contains isocyanate. Can cause allergic reactions.
H220 Extremely flammable gas.
H319 Causes serious eye irritation.
R12 Extremely flammable.
R36/38 Irritating to eyes and skin.

• **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

· **Sources** Information taken from reference works and literature.