



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

1.1 Product identifier

Trade name: Power Bibond, Topfzeit 3 Minuten, Härter
This safety data sheet pertains to the following products:
98533: Display Bibond, 24 ml, 12 Stück, Härter
98550: Power Bibond, Topfzeit 3 Minuten, 50 ml, Härter
98625: Power Bibond, Topfzeit 3 Minuten, 24 ml, SB-Karte, Härter

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

General use: Hardener for 2 component adhesive

1.3 Details of the supplier of the safety data sheet

Company name: PETEC Verbindungstechnik GmbH
Street/POB-No.: Wüstenbuch 26
Postal Code, city: 96132 Schlüsselfeld
Germany
WWW: www.petec.de
E-mail: info@petec.de
Telephone: +49 (0)9555-80994-0
Telefax: +49 (0)9555-80994-25
Dept. responsible for information:
Telephone: +49 (0)9555-80994-0, E-mail: info@petec.de

1.4 Emergency telephone number

+49 (0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 2; H225 Highly flammable liquid and vapour.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.



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Precautionary statements:

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains: Methyl methacrylate

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119452498-28-xxxx EC No. 201-297-1 CAS 80-62-6	Methyl methacrylate	50 - 75 %	Flam. Liq. 2; H225. Skin Irrit. 2; H315. Skin Sens. 1; H317. STOT SE 3; H335.
REACH 01-2119529241-49-xxxx EC No. 248-258-5 CAS 27138-31-4	Oxydipropyl dibenzoate	< 10 %	Aquatic Chronic 3; H412.
EC No. 252-091-3 CAS 34562-31-7	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	< 3 %	Acute Tox. 4; H302. Acute Tox. 4; H312. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 4; H413.
EC No. 400-160-5 CAS 91770-03-5	Fatty acids, tall-oil, reaction products with iminodiethanol and boric acid	< 1 %	Skin Irrit. 2; H315. Aquatic Chronic 2; H411.

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



SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Change contaminated clothing.
In case of inhalation:	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Immediately get medical attention.
Following skin contact:	After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. 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:	Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation. Higher doses may lead to a narcotic effect.

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:

Foam, Extinguishing powder, dry sand, carbon dioxide, water mist

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

Hazardous vapours may form during fires. Furthermore, there may develop: carbon monoxide and carbon dioxide

With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information:

Hazchem-Code: •3YE

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Keep away ignition sources. If possible, eliminate leakage. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Use a breathing protection against vapours/aerosol. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil.

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal)

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide for good room ventilation, suctioning/venting. Do not breathe vapours.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

Use only explosion-protected equipment/instruments. Do not weld.

In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Store containers in upright position. Explosion protection required.



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Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from oxidizing agents.
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

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	Europe: IOELV: STEL	100 ppm
		Europe: IOELV: TWA	50 ppm
		Great Britain: WEL-STEL	416 mg/m ³ ; 100 ppm
		Great Britain: WEL-TWA	208 mg/m ³ ; 50 ppm
		Ireland: 15 minutes	100 ppm
		Ireland: 8 hours	50 ppm

DNEL/DMEL:

Information about Methyl methacrylate:

DNEL short-term, workers, dermal, local: 1.5 mg/cm²
DNEL short-term, workers, inhalative, local: 416 mg/m³
DNEL long-term, workers, dermal, systemic: 13.67 mg/kg bw/d
DNEL long-term, workers, inhalative, systemic: 208 mg/m³
DNEL long-term, workers, dermal, local: 1.5 mg/cm²
DNEL long-term, workers, inhalative, local: 208 mg/m³
DNEL short-term, consumers, dermal, local: 1.5 mg/cm²
DNEL short-term, consumers, inhalative, local: 208 mg/m³
DNEL long-term, consumers, dermal, systemic: 8.2 mg/kg bw/d
DNEL long-term, consumers, inhalative, systemic: 74.3 mg/m³
DNEL long-term, consumers, dermal, local: 1.5 mg/cm²
DNEL long-term, consumers, inhalative, systemic: 105 mg/m³

Information about Oxydipropyl dibenzoate:

DNEL Short-term, workers, dermal, systemic: 170 mg/kg bw/d
DNEL Short-term, workers, inhalative, systemic: 35.08 mg/m³
DNEL Long-term, workers, inhalative, systemic: 8.8 mg/m³
DNEL Long-term, workers, dermal, systemic: 10 mg/kg bw/d
DNEL Short-term, consumers, dermal, systemic: 80 mg/kg bw/d
DNEL Short-term, consumers, inhalative, systemic: 8.7 mg/m³
DNEL Short-term, consumers, oral, systemic: 80 mg/kg bw/d
DNEL Long-term, consumers, dermal, systemic: 0.22 mg/kg bw/d
DNEL Long-term, consumers, inhalative, systemic: 8.69 mg/m³
DNEL Long-term, consumers, oral, systemic: 5 mg/kg bw/d



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PNEC: Information about Methyl methacrylate:
PNEC water (freshwater): 0.94 mg/L
PNEC water (marine water): 0.94 mg/L
PNEC water (intermittent release): 0.94 mg/L
PNEC sewage treatment plant: 10 mg/L
PNEC sediment (freshwater): 5.74 mg/kg dw
PNEC sediment (marine water): 5.74 mg/kg dw
PNEC soil: 1.47 mg/kg dw

Information about Oxydipropyl dibenzoate:
PNEC Water (freshwater): 0.0037 mg/L
PNEC Water (marine water): 0.00037 mg/L
PNEC Water (intermittent release): 0.037 mg/L
PNEC sewage treatment plant: 10 mg/L
PNEC Sediment (freshwater): 1.49 mg/kg
PNEC Sediment (marine water): 0.149 mg/kg
PNEC Soil: 1 mg/kg dw

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. 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: Butyl caoutchouc (butyl rubber)-Layer thickness: 0.7 mm.
Breakthrough time: >60 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.

General protection and hygiene measures:
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Use a breathing protection against vapours/aerosol. Do not breathe vapour/aerosol.
Avoid contact with skin and eyes. Have eye wash bottle or eye rinse ready at work place.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: off-white

Odour: like Acrylate

Odour threshold: No data available

pH value: No data available



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Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	10 °C (c.c.)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	0.97 - 1.01 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	at 40 °C: $\geq 40 \text{ mm}^2/\text{s}$
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



SECTION 11: Toxicological information

11.1 Information on toxicological effects

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: >2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix calculated: >2000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix calculated: >20 mg/L

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

Eye damage/irritation: Lack of data.

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): STOT SE 3; H335 = May cause respiratory irritation.

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

Aspiration hazard: Lack of data.

Other information: Information about Methyl methacrylate:

LD50 Rat, oral: 7872 mg/kg

LD50 Rabbit, dermal: >5000 mg/kg

LD50 Rat, inhalative (vapour): 78000 mg/m³/4h

Information about Oxydipropyl dibenzoate:

LD50 Rat, oral: 3295 mg/kg

LD50 Rabbit, dermal: >2000 mg/kg

LC50 inhalative (Dusts and mist): >200 mg/L/4h

Information about 3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine

LD50 Rat, oral: 1620 mg/kg

LD50 Rabbit, dermal: >1000 mg/kg

Symptoms

In case of inhalation: Irritation to respiratory tract, cough

After contact with skin: skin irritations, redness

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



SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Methyl methacrylate:
Fish toxicity: Pimephales promelas (fathead minnow), freshwater, LC50 acute: 130 mg/L/96 h
Information about Oxydipropyl dibenzoate:
Fish toxicity: LC50: 3.7 mg/L/96h
Daphnia toxicity: EC50: 19.3 mg/L/48h
Algae toxicity: EC50: 4.9 mg/L/72h

12.2 Persistence and degradability

Further details: Information about Oxydipropyl dibenzoate:
Biodegradability: 87 %/28 d

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains. Do not allow uncontrolled discharge of product into the environment.

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
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

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

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 1133



14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1133, Adhesives

14.3 Transport hazard class(es)

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk-

IATA-DGR:

Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

14.5 Environmental hazards

Marine pollutant:

no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:

ADR/RID: Kemmler-number 33, UN number UN 1133

Hazard label:

3

Special provisions:

640D

Limited quantities:

5 L

EQ:

E2

Contaminated packaging - Instructions:

P001 IBC02 R001

Contaminated packaging - Special provisions:

PP1

Special provisions for packing together:

MP19

Portable tanks - Instructions:

T4

Portable tanks - Special provisions:

TP1 TP8

Tank coding:

LGBF

Tunnel restriction code:

D/E

Sea transport (IMDG)

EmS:

F-E, S-D

Special provisions:

-

Limited quantities:

5 L

Excepted quantities:

E2

Contaminated packaging - Instructions:

P001

Contaminated packaging - Provisions:

PP1

IBC - Instructions:

IBC02

IBC - Provisions:

-

Tank instructions - IMO:

-

Tank instructions - UN:

T4

Tank instructions - Provisions:

TP1, TP8

Stowage and handling:

Category B.

Properties and observations:

Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

Segregation group:

none



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Air transport (IATA)

Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3
Emergency Response Guide-Code (ERG):	3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3YE
No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word: **Danger**

Hazard statements:	H317	May cause an allergic skin reaction.
	H335	May cause respiratory irritation.

Precautionary statements:	P102	Keep out of reach of children.
	P261	Avoid breathing vapours.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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SECTION 16: Other information

Further information

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

- H225 = Highly flammable liquid and vapour.
- H302 = Harmful if swallowed.
- H312 = Harmful in contact with skin.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H319 = Causes serious eye irritation.
- H335 = May cause respiratory irritation.
- H411 = Toxic to aquatic life with long lasting effects.
- H412 = Harmful to aquatic life with long lasting effects.
- H413 = May cause long lasting harmful effects to aquatic life.

Date of first version: 1/8/2017

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.