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

### 1.1. Product identifier

UV repair resin BB1

**Further trade names**

UV-Reparaturharz BB1
Résine de réparation UV BB1
Resina de reparación UV BB1

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

**Use of the substance/mixture**

UV Windscreen adhesive

**Uses advised against**

No information available.

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

| | |
|---|---|
| Company name: | PMA/TOOLS GmbH |
| Street: | Siemensring 42 |
| Place: | D-47877 Willich - Germany |
| Telephone: | +49 2154 922230 |
| E-mail: | info@pma-tools.de |
| Contact person: | Labor |
| E-mail: | msds@pma-tools.de (Please DO NOT use for requesting Safety Data Sheets.) |
| Internet: | www.pma-tools.de |
| Responsible Department: | Laboratory |

### 1.4. Emergency telephone number:

Telephone number of the company in case of emergencies (24 h):
+49 (0) 700 / 24 112 112 (PMR)
+1 872 5888271 (PMR)

Emergency information services / official advisory body:
<UK> National Poisons Information Service (24 h): 0870 600 6266 (UK only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

### 2.2. Label elements

**Additional advice on labelling**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Mixture of the following substances with non-hazardous additions.

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 2530-85-0 | 3-(Trimethoxysilyl)propyl methacrylate | | | 2,5 - 5 % |
| | 219-785-8 | | 01-2119513216-50 | |
| | | | | |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 2530-85-0 | 219-785-8 | 3-(Trimethoxysilyl)propyl methacrylate | 2,5 - 5 % |
| | inhalation: LC50 = 2,28 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.
Never give anything by mouth to an unconscious person or a person with cramps.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**After contact with skin**

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).
When in doubt or if symptoms are observed, get medical advice.

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

No information available.

### 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. Carbon dioxide (CO2). Extinguishing powder. Water spray jet.
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide.(CO), Carbon dioxide (CO2), Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit
Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

**General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
Unsuitable material for taking up: Sawdust (Combustible substance)!

### 6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Wear suitable protective clothing. See section 8.
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes. Wash contaminated clothing before reuse.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary. Usual measures for fire prevention.

**Advice on general occupational hygiene**

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

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

**Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

**Hints on joint storage**

Avoid: Strong acid. Strong alkali
Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Protect against: UV-radiation/sunlight, Light, Heat, Frost.
Recommended storage temperature: 5 - 30 °C

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Additional advice on limit values**

(CAS 1565-94-2) (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate
MAK: See Section IV

### 8.2. Exposure controls

**Appropriate engineering controls**

No special measures are necessary. Technical ventilation of workplace

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection. (EN 166)

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.
Wear suitable gloves. (EN 374).
Recommended material: NBR (Nitrile rubber)
Thickness of the glove material: >= 0,4 mm
Breakthrough time:: Index No. 2, > 30 Min. / Index No. 6, > 480 Min.
Replace when worn.

**Skin protection**

Use personal protection equipment.
When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. (89/686/EWG).
Recommended protective clothing articles: compliant EN 14605 / EN 13982.

**Respiratory protection**

Usually no personal respirative protection necessary.
In case of dangerous gases, vapours or dusts self-contained breathing apparatus or suitable masks and filters need to be advised. 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. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Thermal hazards**

Exothermic reaction with: UV-radiation/sunlight

**Environmental exposure controls**

Avoid release to the environment. Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Liquid |
| Colour: | colourless |

| | | |
|---|---|---|
| Odour: | characteristic | |
| Odour threshold: | not determined | |

**Changes in the physical state**

| | |
|---|---|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | 190 °C |
| Flash point: | 110 °C |

**Flammability**

| | |
|---|---|
| Solid/liquid: | not applicable |

**Explosive properties**

not applicable

| | |
|---|---|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature: | 320 °C |

**Self-ignition temperature**

| | |
|---|---|
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 7 |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: | Immiscible |

**Solubility in other solvents**

not determined

| | |
|---|---|
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 1,05 g/cm³ |
| Relative vapour density: | not determined |
| Particle characteristics: | No data available |

## 9.2. Other information

**Information with regard to physical hazard classes**

Oxidizing properties

Not oxidising.

**Other safety characteristics**

| | |
|---|---|
| Solid content: | not determined |
| Evaporation rate: | not determined |

**Further Information**

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
The product is: Sensitivity to light (photosentive). exothermic Polymerisation.

**10.4. Conditions to avoid**

UV-radiation/sunlight, Light, Heat, Frost.

**10.5. Incompatible materials**

Materials to avoid: Oxidising agent, strong. Strong acid, Alkali (lye).

**10.6. Hazardous decomposition products**

After intended use: No known hazardous decomposition products.
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 2530-85-0 | 3-(Trimethoxysilyl)propyl methacrylate | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | OECD 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | | OECD 402 |
| | inhalation (4 h) dust/mist | LC50 2,28 mg/l | Rat | | OECD 403 |

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects 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.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Other information**

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | | [h] \| [d] | Species | Source | Method |
| 2530-85-0 | 3-(Trimethoxysilyl)propyl methacrylate | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | Danio rerio (zebrafish) | | Guideline 67/548/EC |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna (Big water flea) | | Guideline 67/548/EC |
| | Acute bacteria toxicity | EC50 mg/l ( ) | > 1000 | 3 h | Activated sludge | | OECD 209 |

### 12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|---|---|---|---|---|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 2530-85-0 | 3-(Trimethoxysilyl)propyl methacrylate | | | |
| | Aerobic biological treatment | 69 % | 28 | OECD 301F |
| | Readily biodegradable (according to OECD criteria). | | | |

### 12.3. Bioaccumulative potential

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 2530-85-0 | 3-(Trimethoxysilyl)propyl methacrylate | 2,1 |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

**Further information**

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Recommendation: EAK 080409

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Contaminated packaging**

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** not applicable

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number or ID number:** not applicable

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** not applicable

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

## SECTION 15: Regulatory information

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

**EU regulatory information**

Directive 2010/75/EU on industrial emissions: 0 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

ATE: Acute Toxicity Estimate.
AwSV: Anlagenverordnung wassergefährdender Stoffe (Regulation on facilities handling substances dangerous to water).
BGI: Berufsgenossenschaftliche Informationen (trade association information).
BGR: Berufsgenossenschaftliche Regeln (trade association regulation).
CAS: Chemical Abstracts Service.
CEN: Comité Européen de Normalisation European (Committee for Standardization).
CLP: Classification, Labelling and Packaging of substances and mixtures (REGULATION (EC) No 1272/2008).
DIN: Deutsches Institut für Normung (German institute for standardization).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
EC: European Community.
EC50: Half maximal effective concentration.
ECHA: European Chemicals Agency.
EG: Europäische Gemeinschaft (European Community).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norms.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA-DGR: International Air Transport Association - Dangerous Goods Regulations.
IBC: Intermediate Bulk Container.
IC50 / ErC50: Inhibitory concentration, 50 %.
ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Code for Dangerous Goods.
ISO: International Organization for Standardization.
IUPAC: International Union for Pure and Applied Chemistry.
LC50: Lethal concentration, 50 %.
LD50: Lethal dose, 50 %.
log Kow (Pow): Partition coefficient n-octanol/water.
LQ: Limited Quantities.
MARPOL: International Convention for the Prevention of Marine Pollution from Ships.
OECD: Organisation for Economic Co-operation and Development.
PBT: persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006).
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.
STOT - SE: Specific Target Organ Toxicity - Single Exposure.
TRGS: Technische Regel für Gefahrstoffe (technical guideline for the handling of hazardous materials).
UFI: Unique Formula Identifier.
UN: Untited Nations.
VOC: Volatile organic compounds.
vPvB: very persistent and very bioaccumulative.
WGK: Wassergefährdungsklasse (water hazard class).

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The above information describes exclusively the safety requirements of the product and is based on our

present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*