

**Safety Data Sheet**

according to UK REACH Regulation

**VERIFIX 2K-60 Comp.B**

Revision date: 05.07.2023

Product code: BO5500540B

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

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**Further trade names**

BO 5500540 = 25ml BO 5500540A + 25 ml BO 5500540B

Product group: Zulieferprodukt

UFI: TXTH-3T8E-3283-N82R

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
**Use of the substance/mixture**

adhesive

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

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Dr. Martin Schade	Telephone: +49 2129 5568-300
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

**1.4. Emergency telephone number:**

Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**
**GB CLP Regulation**

Flam. Liq. 2; H225  
 Skin Corr. 1A; H314  
 Eye Dam. 1; H318  
 Skin Sens. 1; H317  
 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**
**GB CLP Regulation**
**Hazard components for labelling**

Methyl methacrylate  
 2-hydroxyethyl methacrylate  
 2-methylpropenoic acid, methacrylic acid  
 1-Benzoyl-2-ethylimidazol

Signal word: Danger

**Pictograms:**

**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Methacrylate/Acrylate resin(s).

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
80-62-6	Methyl methacrylate			<50 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
868-77-9	2-hydroxyethyl methacrylate			< 50 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
79-41-4	2-methylpropenoic acid, methacrylic acid			<20 %
	201-204-4	607-088-00-5	01-2119463884-26	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314			
614-23-3	Benzoyl Thiourea			<10 %
	Acute Tox. 4; H302			
	1-Benzoyl-2-ethylimidazol			<3 %
	Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H318 H317 H412			

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	
80-62-6	201-297-1	Methyl methacrylate	<50 %
		inhalation: LC50 = 78 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 7900 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	< 50 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 5050 mg/kg	
79-41-4	201-204-4	2-methylpropenoic acid, methacrylic acid	<20 %
		inhalation: LC50 = >3,6 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 1320 mg/kg STOT SE 3; H335: >= 1 - 100	
614-23-3		Benzoyl Thiourea	<10 %
		oral: ATE = 500 mg/kg	

**SECTION 4: First aid measures**

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#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection!  
Get medical advice/attention if you feel unwell.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest. If symptoms persist, call a physician.

##### After contact with skin

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. When in doubt or if symptoms are observed, get medical advice.

##### After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

##### After ingestion

Do not induce vomiting. Immediately give large quantities of water to drink. Call a physician immediately.

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

Inhalation: Irritation to respiratory tract  
Skin contact : May cause an allergic skin reaction.  
Eye contact : Causes serious eye damage.

#### 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, dry powder, foam, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Full water jet

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

Carbon monoxide, nitrogen oxides (NO<sub>x</sub>)

#### 5.3. Advice for firefighters

Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire, wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

##### General advice

Wear personal protection equipment (refer to section 8).  
Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.  
Local authorities should be advised if significant spillages cannot be contained.

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

##### Other information

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Ensure adequate ventilation.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8  
Disposal: see section 13

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**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**
**Advice on safe handling**

- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation.

**Advice on protection against fire and explosion**

- No special technical protective measures required.

**Advice on general occupational hygiene**

- Wash hands before breaks and after work. When using do not eat, drink or smoke.
- Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.

**Further information on handling**

- Avoid: UV-radiation/sunlight

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

- Keep only in the original container in a cool, well-ventilated place.
- Keep container tightly closed. Keep locked up.
- Recommended storage temperature 5 - 25°C. Keep away from direct sunlight.

**7.3. Specific end use(s)**

- adhesive

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

**8.2. Exposure controls**
**Appropriate engineering controls**

- Provide sufficient air exchange and/or exhaust in work rooms.
- Do not breathe vapour. To follow: Occupational exposure limit values

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

- safety glasses with side-shields conforming to EN166

**Hand protection**

- The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.
- Recommended material: NBR (Nitrile rubber), VITON
- Unsuitable material: Natural fibres (e.g. cotton)

**Skin protection**

- Wear suitable protective clothing.

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**Respiratory protection**

Usually no personal respirative protection necessary. When using do not eat, drink or smoke.  
 In case of inadequate ventilation wear respiratory protection. Full-/half-/quarter-face masks (EN 136/140)  
 Respirator with filter for organic vapour. Recommended Filter type: A (P2)

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	pink
Odour:	characteristic
Boiling point or initial boiling point and boiling range:	101 °C
Flash point:	10 °C
Viscosity / kinematic: (at 23 °C)	5000 mm <sup>2</sup> /s
Water solubility:	not determined
Vapour pressure: (at 20 °C)	47 hPa
Density (at 25 °C):	1 g/cm <sup>3</sup>

**9.2. Other information**
**Information with regard to physical hazard classes**

Explosive properties

None.

**Other safety characteristics**

Solvent content:	0,0%
Solid content:	100%
Viscosity / dynamic: (at 25 °C)	5000 mPa·s

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

Light / UV-radiation/sunlight

Oxidising agent, strong

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Keep cool. Protect from sunlight. Heat, flames and sparks.

In case of light influence: Polymerisation

**10.5. Incompatible materials**

 Reducing agent, strong. Oxidising agent, strong  
 strong acids and strong bases

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

 Thermal decomposition can lead to the escape of irritating gases and vapours. Carbon monoxide (CO),  
 Carbon dioxide (CO<sub>2</sub>), Hydrocarbons

**SECTION 11: Toxicological information**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	Methyl methacrylate				
	oral	LD50 mg/kg	7900	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	OECD 402
	inhalation (4 h) vapour	LC50	78 mg/l	Rat	
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg	5050	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	
79-41-4	2-methylpropenoic acid, methacrylic acid				
	oral	LD50 mg/kg	1320	Rat	OECD 401
	dermal	ATE mg/kg	1100		
	inhalation (4 h) dust/mist	LC50	>3,6 mg/l	Rat	OECD 403
614-23-3	Benzoyl Thiourea				
	oral	ATE mg/kg	500		

**SECTION 12: Ecological information**
**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
80-62-6	Methyl methacrylate					
	Acute fish toxicity	LC50	283 mg/l	96 h	Lepomis macrochirus (Bluegill)	
	Acute algae toxicity	ErC50	110 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna (Big water flea)	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	
79-41-4	2-methylpropenoic acid, methacrylic acid					
	Acute fish toxicity	LC50 mg/l	100-180	96 h	Danio rerio (zebrafish)	OECD 203
	Acute crustacea toxicity	EC50 mg/l	>130	48 h	Daphnia magna (Big water flea)	OECD 202

**12.2. Persistence and degradability**

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
80-62-6	Methyl methacrylate			
	aerob	94%	14	
	Readily biodegradable (according to OECD criteria).			
79-41-4	2-methylpropenoic acid, methacrylic acid			
	OECD 301D	86%		
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**
**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
80-62-6	Methyl methacrylate	1,38
868-77-9	2-hydroxyethyl methacrylate	0,47

**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.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Disposal recommendations**

Consult the appropriate local waste disposal expert about waste disposal.

**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

**List of Wastes Code - used product**

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

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1133

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**14.2. UN proper shipping name:** Adhesives (Methyl methacrylate, 2-methylpropenoic acid, methacrylic acid)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives (Methyl methacrylate, 2-methylpropenoic acid, methacrylic acid)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives (Methyl methacrylate, Methacrylic acid)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: 223, 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-D

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

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives (Methyl methacrylate, Methacrylic acid)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344

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Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2004/42/EC (VOC):	0 %
	0 g/l

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
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Water hazard class (D):	2 - obviously hazardous to water
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**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.

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

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

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processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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