

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VERIFIX 2K-60 Comp.B

Revision date: 16.01.2024

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
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
Regulation (EC) No 1272/2008

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
Regulation (EC) No 1272/2008
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.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

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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 (Regulation (EC) No 1272/2008)	
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
4.1. Description of first aid measures

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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 (CO₂)

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, nitrogen oxides (NO_x)

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.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
79-41-4	Methacrylic acid	20	70		TWA (8 h)	
		40	140		STEL (15 min)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

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.

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)

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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 ² /s
Water solubility:	not determined
Vapour pressure: (at 20 °C)	47 hPa
Density (at 25 °C):	1 g/cm ³

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 (CO₂), Hydrocarbons

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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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		

11.2. Information on other hazards
Endocrine disrupting properties

This information is not available.

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

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

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

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

This information is not available.

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.

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

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
 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

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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
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): 1,11,12.

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

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.

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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 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.)