

VERIFIX 2K-60 Comp.A

Revision date: 07/05/2023

Product code: BO5500540A

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1. Identification**Product identifier**

VERIFIX 2K-60 Comp.A

Further trade names

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

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

adhesive

Details of the supplier of the safety data sheet**Manufacturer**

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	

Trader of the product

Company name:	Bohle America, Inc.
Street:	10924 Granite Street, Suite 200
Place:	USA-NC 28273 Charlotte
e-mail (Contact person):	sales@bohle.com

Emergency phone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

Methyl methacrylate
2-hydroxyethyl methacrylate
alpha,alpha-dimethylbenzyl hydroperoxide
1,4-dihydroxybenzene; hydroquinone; quinol

Signal word: Danger

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Pictograms:

Hazard statements

H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face 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.

Labelling of packages where the contents do not exceed 125 ml
Signal word: Danger

3. Composition/information on ingredients
Mixtures
Chemical characterization

Methacrylate/Acrylate resin(s).

Hazardous components

CAS No	Components			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			<25 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
3290-92-4	Propylidynetrimethyl trimethacrylate			<2,5 %
	221-950-4		01-2119542176-41	
	Aquatic Chronic 2; H411			
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide			<2,5 %
	201-254-7	617-002-00-8	01-2119475796-19	
	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H373 H411			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol			<1 %
	204-617-8	604-005-00-4	01-2119524016-51	
	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	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	<25 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 5050 mg/kg	
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide	<2,5 %
		inhalation: LC50 = 1,4 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - 100	
123-31-9	204-617-8	1,4-dihydroxybenzene; hydroquinone; quinol	<1 %
		oral: LD50 = 302 mg/kg Aquatic Acute 1; H400: M=10	

4. First-aid measures
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.

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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media

water spray, dry powder, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Carbon monoxide, nitrogen oxides (NO_x)

Special protective equipment and precautions for fire-fighters

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.

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6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

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

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.

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.

Reference to other sections

Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage**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

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.

Specific end use(s)

adhesive

8. Exposure controls/personal protection**Control parameters**

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Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
123-31-9	Hydroquinone	-	2		TWA (8 h)	PEL
		-	C 2		Ceiling	REL
80-62-6	Methyl methacrylate	100	410		TWA (8 h)	PEL
		100	410		TWA (8 h)	REL

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)

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid
Color: green
Odor: characteristic

Test method

Boiling point or initial boiling point and boiling range: 101 °C
Flash point: 10 °C
Viscosity / kinematic: 5000 mm²/s (at 23 °C)
Water solubility: not determined OECD 116
Vapor pressure: 47 hPa (at 20 °C)
Density (at 25 °C): 1 g/cm³

Other information

Information with regard to physical hazard classes

Explosive properties
None.

Other safety characteristics

Solvent content: 0,0%
Solid content: 100%

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Viscosity / dynamic:
(at 25 °C)

5000 mPa·s

10. Stability and reactivity**Reactivity**Light / UV-radiation/sunlight
Oxidizing agent, strong**Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoidKeep cool. Protect from sunlight. Heat, flames and sparks.
In case of light influence: Polymerisation**Incompatible materials**Reducing agent, strong. Oxidizing agent, strong
strong acids and strong bases**Hazardous decomposition products**No decomposition if stored and applied as directed.
Thermal decomposition can lead to the escape of irritating gases and vapors. Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrocarbons**11. Toxicological information****Information on toxicological effects**

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Acute toxicity

CAS No	Components					
	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		
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide					
	oral	LD50 mg/kg	382	Rat	IUCLID	
	dermal	LD50 mg/kg	500	Rat	RTECS	
	inhalation (4 h) vapour	LC50	1,4 mg/l	Rat	IUCLID	
	inhalation dust/mist	ATE	0,5 mg/l			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol					
	oral	LD50 mg/kg	302	Rat	IUCLID	

12. Ecological information
Ecotoxicity

CAS No	Components					
	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	

CAS No	Components				
	Method	Value	d	Source	
	Evaluation				
80-62-6	Methyl methacrylate				
	aerob	94%	14		
	Readily biodegradable (according to OECD criteria).				

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Partition coefficient n-octanol/water

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

Results of PBT and vPvB assessment

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

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.

13. Disposal considerations
Waste treatment methods
Disposal recommendations

Consult the appropriate local waste disposal expert about waste disposal.

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.

14. Transport information
Land transport (ADR/RID)

UN number or ID number: UN 1133
UN proper shipping name: Adhesives (Methyl methacrylate)
Transport hazard class(es): 3
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)

UN number or ID number: UN 1133
UN proper shipping name: Adhesives (Methyl methacrylate)
Transport hazard class(es): 3
Packing group: III
 Hazard label: 3

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

Marine transport (IMDG)

UN number or ID number: UN 1133
UN proper shipping name: Adhesives (Methyl methacrylate)
Transport hazard class(es): 3
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)

UN number or ID number: UN 1133
UN proper shipping name: Adhesives (Methyl methacrylate)
Transport hazard class(es): 3
Packing group: III
 Hazard label: 3



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

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information
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 employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

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Water hazard class (D): 2 - obviously hazardous to water

Chemical Safety Assessment

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

16. Other information
Changes

This data sheet contains changes from the previous version in section(s): 2,9.

Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H statements (full text)

H225	Highly flammable liquid and vapor
H242	Heating may cause a fire
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
H331	Toxic if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Other data

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.)