



Safety Data Sheet

according to Regulation (EC) No 1907/2006

UV Adhesive VERIFIX B 665-0

Revision date: 06.06.2017

Product code: BO5209300

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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 5209327, 20 g
 BO 5209300, 100 g
 BO 5209321, 250 g
 BO 5209324, 1000 g

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

Use of the substance/mixture

adhesives

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:	Klaus Nehren	Telephone: +49 2129 5568-276
e-mail:	MSDS@bohle.de	
Internet:	www.bohle-group.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

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2
 Serious eye damage/eye irritation: Eye Dam. 1
 Respiratory or skin sensitisation: Skin Sens. 1
 Specific target organ toxicity - single exposure: STOT SE 3
 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause respiratory irritation.
 Causes serious eye damage.
 Causes skin irritation.
 May cause an allergic skin reaction.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2-hydroxyethyl methacrylate
 Acrylic acid
 tert-butyl perbenzoate
 Maleic acid

Signal word: Danger

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Pictograms:**Hazard statements**

H335	May cause respiratory irritation.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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

Methacrylate/Acrylate resin(s).

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
868-77-9	2-hydroxyethyl methacrylate			< 49%
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate			< 49%
	227-561-6			
	Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3, Aquatic Acute 2, Aquatic Chronic 2; H315 H319 H335 H401 H411			
79-10-7	Acrylic acid			< 14%
	201-177-9	607-061-00-8		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3, Aquatic Acute 1 (M-Factor = 1); H226 H302 H312 H332 H314 H335 H400			
614-45-9	tert-butyl perbenzoate			< 3%
	210-382-2			
	Org. Perox. C, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 3; H242 H332 H315 H317 H400 H412			
24650-42-8	2,2-dimethoxy-1,2-diphenylethan-1-one			< 3%
	246-386-6			
	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H400 H410			
110-16-7	Maleic acid			< 3%
	203-742-5	607-095-00-3		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Acute 3; H302 H315 H319 H317 H335 H402			
2530-85-0	3-methoxysilylpropyl methacrylate			< 1%
	219-785-8			
	Skin Sens. 1; H317			

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

SECTION 4: First aid measures
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.

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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 jet, Extinguishing powder, Foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Burning produces irritant fumes. Carbon monoxide, Carbon dioxide, Hydrocarbons, 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**

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

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

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.

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.

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7.3. Specific end use(s)

adhesive

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****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

Protective and hygiene measures

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.

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 (DIN 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:	colourless
Odour:	characteristic

Test method**Changes in the physical state**

Flash point: 101 °C

Explosive properties

None.

Water solubility: practically insoluble

Viscosity / dynamic:
(at 20 °C) 55 mPa·s

Solvent content: 0%

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

Light / UV-radiation/sunlight
Oxidising agent, strong

10.2. Chemical stability

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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 toxicological effects****ATEmix calculated**

ATE (oral) 1830,2 mg/kg

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg	5050	Rat	
	dermal	LD50 mg/kg	>3000	Rabbit	
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate				
	oral	LD50 mg/kg	4890	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	
79-10-7	Acrylic acid				
	oral	LD50 mg/kg	193	Rat	
	dermal	LD50 mg/kg	295	Rabbit	
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
614-45-9	tert-butyl perbenzoate				
	oral	LD50 mg/kg	4838	Rat	
	dermal	LD50 mg/kg	3817	Rabbit	
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
24650-42-8	2,2-dimethoxy-1,2-diphenylethan-1-one				
	oral	LD50 mg/kg	>2000	Rat	
110-16-7	Maleic acid				
	oral	LD50 mg/kg	708	Rat	
	dermal	LD50 mg/kg	1560	Rabbit	
	inhalative (1 h) vapour	LC50 mg/l	>720	Rat	
2530-85-0	3-methoxysilylpropyl methacrylate				
	oral	LD50 mg/kg	>5000	Rat	

SECTION 12: Ecological information
12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 227 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 >380 mg/l	48 h	Daphnia magna (Big water flea)		
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate					
	Acute fish toxicity	LC50 1,8 mg/l	96 h			
	Acute algae toxicity	ErC50 2,7 mg/l	96 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 1,1 mg/l	48 h	Daphnia magna (Big water flea)		
79-10-7	Acrylic acid					
	Acute fish toxicity	LC50 222 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 0,04 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 95 mg/l	48 h			
614-45-9	tert-butyl perbenzoate					
	Acute fish toxicity	LC50 1,6 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203	
	Acute algae toxicity	ErC50 1,3 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 11 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
24650-42-8	2,2-dimethoxy-1,2-diphenylethan-1-one					
	Acute fish toxicity	LC50 6 mg/l	96 h	Lepomis macrochirus (Bluegill)		
	Acute algae toxicity	ErC50 0,17 mg/l	72 h			
	Acute crustacea toxicity	EC50 26 mg/l	48 h	Daphnia magna (Big water flea)		
110-16-7	Maleic acid					
	Acute fish toxicity	LC50 5 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 250-400 mg/l	48 h	Daphnia magna (Big water flea)		
2530-85-0	3-methoxysilylpropyl methacrylate					
	Acute fish toxicity	LC50 >1024 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 >536 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 >876 mg/l	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
614-45-9	tert-butyl perbenzoate			
	aerob	70%	28	
	Readily biodegradable, according to appropriate OECD test.			
2530-85-0	3-methoxysilylpropyl methacrylate			
	aerob	69%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	4,21
79-10-7	Acrylic acid	0,46
614-45-9	tert-butyl perbenzoate	3
110-16-7	Maleic acid	-0,79 - 0,32
2530-85-0	3-methoxysilylpropyl methacrylate	2,1

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Advice on disposal

Consult the appropriate local waste disposal expert about waste disposal.

Waste disposal number of waste from 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
Classified as hazardous waste.

Waste disposal number of 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
Classified as hazardous waste.

Waste disposal number of 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
Classified as 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: No dangerous good in sense of this transport regulation.

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

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14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

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

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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

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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.)