

according to Regulation (EC) No 1907/2006

**UV Adhesive VERIFIX MV 760 VIS**

Revision date: 07.06.2017

Product code: BOMV76V10

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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 MV76V10, 100 g

BO MV76V25, 250 g / BO MV76V25S, Spacer, 250 g

BO MV76V1K, 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 Corr. 1A

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 Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

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

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Acrylic acid

2-hydroxyethyl methacrylate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

**Signal word:** Danger

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**Pictograms:**

**Hazard statements**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.

**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 according to Regulation (EC) No. 1272/2008 [CLP]	
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	< 50%
	227-561-6	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H315 H319 H317 H335 H400 H411	
-	Urethane acrylate	<35%
	-	-
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
79-10-7	Acrylic acid	< 25%
	201-177-9	607-061-00-8
	01-2119452449-31	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1 (M-Factor = 1); H226 H302 H312 H332 H314 H400	
868-77-9	2-hydroxyethyl methacrylate	< 10%
	212-782-2	607-124-00-X
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 2%
	278-355-8	015-203-00-X
	Repr. 2, Skin Sens. 1B, Aquatic Acute 2, Aquatic Chronic 2; H361f H317 H401 H411	

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

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**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.

**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 (CO<sub>2</sub>)

**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<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**

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

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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.

**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****8.2. Exposure controls****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**

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Viscosity / dynamic:  
(at 23 °C) 1500 mPa·s

Solvent content: 0%

**9.2. Other information**

not auto-flammable

**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****11.1. Information on toxicological effects****Acute toxicity**

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
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	500	Rat	
	dermal	LD50 mg/kg	1100	Rat	
	inhalative (4 h) vapour	LC50	11 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg	5050	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	

**Irritation and corrosivity**

Causes severe burns.

Irritating to respiratory system.

**Sensitising effects**

May cause sensitisation by skin contact.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

Inhalative specific target organ toxicity (single exposure)

 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate: Category 3  
 acrylic acid, prop-2-enoic acid: Category 3

**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.

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate					
	Acute fish toxicity	LC50 mg/l	0,704	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 mg/l	1,98	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	1,1 mg/l	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC mg/l	0,405	3 d	Pseudokirchneriella subcapitata	
	Crustacea toxicity	NOEC mg/l	0,092	21 d	Daphnia magna (Big water flea)	
79-10-7	Acrylic acid					
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	0,13	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	

**12.2. Persistence and degradability**

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate				
	Decomposition with: Water	57%	28		

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

CAS No	Chemical name	Log Pow
79-10-7	Acrylic acid	0,35
868-77-9	2-hydroxyethyl methacrylate	0,47

**Further information**

No data is available on the product itself.

**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**

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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:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (acrylic acid, prop-2-enoic acid)  
**14.3. Transport hazard class(es):** 8  
 Hazard label: 8



Classification code: C9  
 Special Provisions: 274  
 Limited quantity: 5 L  
 Transport category: 3  
 Hazard No: 80  
 Tunnel restriction code: E

**Other applicable information (land transport)**

Special Provisions: 274  
 E1  
 3

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (acrylic acid, prop-2-enoic acid)  
 Marine pollutant (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, acrylic acid, prop-2-enoic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C9  
 Special Provisions: 274  
 Limited quantity: 5 L

**Other applicable information (inland waterways transport)**

Special Provisions: 274



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E1

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1760
<b>14.2. UN proper shipping name:</b>	CORROSIVE LIQUID, N.O.S. (Acrylic Acid) Marine pollutant (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, Acrylic Acid)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8



Special Provisions:	223, 274
Limited quantity:	5 L
EmS:	F-A, S-B

#### Other applicable information (marine transport)

Special Provisions: 223, 274, 944

E1

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

<b>14.1. UN number:</b>	UN 1760
<b>14.2. UN proper shipping name:</b>	CORROSIVE LIQUID, N.O.S. (Acrylic Acid)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8



Limited quantity Passenger:	1 L	
IATA-packing instructions - Passenger:		852
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		856
IATA-max. quantity - Cargo:		60 L

#### Other applicable information (air transport)

E1

Y818

Special Provisions: A3

Y841

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



## SECTION 15: Regulatory information

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

#### National regulatory information

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Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 3 - highly 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.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H411	Toxic 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.)*