

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**UV Adhesive VERIFIX MV 760**

Revision date: 20.10.2023

Product code: BOMV76010

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

UV Adhesive VERIFIX MV 760

**Further trade names**

BO MV76002, 20 g  
 BO MV76010, 100 g / BO MV76010S, Spacer, 100 g  
 BO MV76025, 250 g / BO MV76025S, Spacer, 250 g  
 BO MV7601K, 1000 g / BO MV7601KS, Spacer, 1000 g

UFI: VD1Q-W6QP-W51D-0XFG

**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:	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**

Skin Corr. 1A; H314  
 Eye Dam. 1; H318  
 Skin Sens. 1; H317  
 STOT SE 3; H335  
 Aquatic Acute 1; H400  
 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

**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, prop-2-enoic acid  
 2-hydroxyethyl methacrylate

**Signal word:** Danger

**Pictograms:**


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**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.
H410	Very 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 or 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.

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

**Pictograms:**

**Hazard statements**

H314-H317-H335-H410

**Precautionary statements**

P260-P280-P301+P330+P331-P303+P361+P353-P305+P351+P338-P310

**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 (Regulation (EC) No 1272/2008)			
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate			< 50%
	227-561-6		01-2119957862-25	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H317 H335 H400 H410			
73324-00-2	Urethane acrylate			< 50%
	615-966-4		-	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
79-10-7	acrylic acid, prop-2-enoic 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; H226 H332 H312 H302 H314 H400			
868-77-9	2-hydroxyethyl methacrylate			< 10%
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			

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		
5888-33-5	227-561-6	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	< 50% %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		
79-10-7	201-177-9	acrylic acid, prop-2-enoic acid	< 25% %
	inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1100 mg/kg; oral: LD50 = 500 mg/kg STOT SE 3; H335: >= 1 - 100 Aquatic Acute 1; H400: M=1		
868-77-9	212-782-2	2-hydroxyethyl methacrylate	< 10% %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 5050 mg/kg		

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

**Unsuitable extinguishing media**

Full 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****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

**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.

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**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 <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
79-10-7	Acrylic acid	10	29		TWA (8 h)	
		20	59		STEL (1 min)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate			
	Worker DNEL, long-term	dermal	systemic	1,39 mg/kg bw/day
79-10-7	acrylic acid, prop-2-enoic acid			
	Worker DNEL, long-term	inhalation	systemic	30 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	30 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	30 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	30 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Environmental compartment	Value
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate		
	Freshwater		0,00092 mg/l
	Marine water		0,000092 mg/l
	Freshwater sediment		0,145 mg/kg
	Marine sediment		0,0145 mg/kg
	Micro-organisms in sewage treatment plants (STP)		2 mg/l
	Soil		0,0285 mg/kg
79-10-7	acrylic acid, prop-2-enoic acid		
	Freshwater		0,003 mg/l
	Freshwater (intermittent releases)		0,0013 mg/l
	Marine water		0,0003 mg/l
	Freshwater sediment		0,0236 mg/kg
	Marine sediment		0,00234 mg/kg

**8.2. Exposure controls**
**Individual protection measures, such as personal protective equipment**

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#### 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 respiratory 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:	colourless
Odour:	characteristic

Flash point:	79 °C	<b>Test method</b>
pH-Value (at 21 °C):	2,5	DIN 51755 5% emulsion

### 9.2. Other information

#### Other safety characteristics

Solvent content: 0%

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

#### Further 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

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

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

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 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
79-10-7	acrylic acid, prop-2-enoic acid				
	oral	LD50 500 mg/kg	Rat		
	dermal	LD50 1100 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 11 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5050 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; 2-hydroxyethyl methacrylate)

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

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

**STOT-single exposure**

May cause respiratory irritation. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; acrylic acid, prop-2-enoic acid)

Inhalative specific target organ toxicity (single exposure)

@05888.33.5DE: 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	Danio rerio (zebrafish)	OECD 203
	Crustacea toxicity	NOEC mg/l	0,092	21 d	Daphnia magna (Big water flea)	
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				
		57%	28		

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

CAS No	Chemical name	Log Pow
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	4,52
79-10-7	acrylic acid, prop-2-enoic acid	0,35
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 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.

**Further information**

No data is available on the product itself.

**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**



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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 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  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C9  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID 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  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C9  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1760  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Acrylic Acid)  
 Marine pollutant (@05888.33.5DE, Acrylic Acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B

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

<b>14.1. UN number or ID 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>	II
Hazard label:	8



Special Provisions:	A3 A803
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L

**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**
**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

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

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

**National regulatory information**

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

Water hazard class (D): 3 - highly hazardous to water

**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): 2.

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

Classification	Classification procedure
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

**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.
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.
H410	Very 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.)*