

#### UV adhesive VERIFIX B 690-0

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#### 1. Identification

### **Product identifier**

UV adhesive VERIFIX B 690-0

#### Further trade names

BO 5209370, 85 g

BO 5209372, 1000 g / BO 5209372S, Spacer, 1000 g

### Recommended use of the chemical and restrictions on use

### Use of the substance/mixture

adhesives

### Details of the supplier of the safety data sheet

#### Manufacturer

Company name: BOHLE AG
Street: Dieselstr. 10
Place: 42781 Haan
Telephone: +49 2129 556

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

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

2-ethylhexyl methacrylate 2-hydroxyethyl methacrylate Methyl methacrylate

Signal word: Warning



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### Pictograms:



### **Hazard statements**

H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation

### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

## 3. Composition/information on ingredients

### **Mixtures**

### **Chemical characterization**

Methacrylate/Acrylate resin(s).

## **Hazardous components**

CAS No	Components				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)			
688-84-6	2-ethylhexyl methacrylate			<30 %	
	211-708-6		01-2119490166-35		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. H412	315 H319 H317 H335			
868-77-9	2-hydroxyethyl methacrylate		<30 %		
	212-782-2	607-124-00-X	01-2119490169-29		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.				
80-62-6	Methyl methacrylate		<1 %		
	201-297-1	607-035-00-6	01-2119452498-28		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens	335			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
	Specific Conc.	Limits, M-factors and ATE	
688-84-6	211-708-6	2-ethylhexyl methacrylate	<30 %
	oral: LD50 = 1	6465 mg/kg STOT SE 3; H335: >= 10 - 100	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	<30 %
	dermal: LD50	= >5000 mg/kg; oral: LD50 = 5050 mg/kg	
80-62-6	201-297-1	Methyl methacrylate	<1 %
	inhalation: LC	50 = 78 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 7900 mg/kg	

### 4. First-aid measures

# **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.

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

#### Unsuitable extinguishing media

Full water jet

### Specific hazards arising from the chemical

Carbon monoxide, nitrogen oxides (NOx)

#### 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.

### 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



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### 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**

### **Exposure limits**

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
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)



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### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: Liquid
Color: colorless
Odor: characteristic

Test method

## Changes in the physical state

Flash point: >100 °C

pH-Value (at 21 °C): 4 5% emulsion

Viscosity / dynamic: 600 mPa⋅s

(at 23 °C)

Water solubility: insoluble

Density (at 20 °C): 1,1 g/cm³

### Other information

Other safety characteristics

Solvent content: 0%

**Further Information** 

## 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 avoid

Keep 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	
688-84-6	2-ethylhexyl methacrylat	e					
	oral	LD50 mg/kg	16465	Rat			
868-77-9	2-hydroxyethyl methacrylate						
	oral	LD50 mg/kg	5050	Rat			
	dermal	LD50 mg/kg	>5000	Rabbit			
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			

# 12. Ecological information

CAS No	Components							
	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			
80-62-6	Methyl methacrylate							
	Acute fish toxicity	LC50	283 mg/l		Lepomis macrochirus (Bluegill)			
	Acute algae toxicity	ErC50	110 mg/l		Pseudokirchneriella subcapitata	OECD 201		
	Acute crustacea toxicity	EC50	69 mg/l		Daphnia magna (Big water flea)			

CAS No	Components						
	Method	Value	d	Source			
	Evaluation						
688-84-6	2-ethylhexyl methacrylate						
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	88%	28				
	Readily biodegradable (according to OECD criteria).						
80-62-6	Methyl methacrylate						
	aerob	94%	14				
	Readily biodegradable (according to OECD criteria).						

## Partition coefficient n-octanol/water

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

# Results of PBT and vPvB assessment

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



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#### **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

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

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

## 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 75

2004/42/EC (VOC): 0 %

0 g/l

**National regulatory information** 

**Employment restrictions:** Observe employment restrictions for young people.

Water hazard class (D): 1 - slightly 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.

### Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure		
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		



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### Relevant H statements (full text)

H225	Highly flammable liquid and vapor

H315 Causes skin irritation

H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation

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.)