

Safety Data Sheet

according to Regulation (EC) No 1907/2006

UV Adhesive B 682-T

Print date: 25.02.2023

Product code: BO5209394

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

UV Adhesive B 682-T

Further trade names

BO 5209393 UV-adhesive B 682-T, 20 g bottle
 BO 5209394 UV-adhesive B 682-T, 100 g bottle
 BO 5209395 UV-adhesive B 682-T, 250 g bottle
 BO 5209349 UV adhesive B 682-T, 20 kg, (4 containers of 5 kg each)

UV Adhesive B 682-T is part of
 BO 5500304 Professional kit f. UV bonding with UV lamp 52 094 75 110V UVA Star "light" 570 mm

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:	02129 5568-0	Telefax: 02129 5568 282
e-mail:	info@bohle.de	
Contact person:	Uwe Adler	Telephone: 02129 5568 276
e-mail:	uwe.adler@bohle.de	
Responsible Department:	Chemie	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant, N - Dangerous for the environment

R phrases:

Irritating to eyes, respiratory system and skin.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Danger symbols: Xi - Irritant; N - Dangerous for the environment



Xi - Irritant



N - Dangerous for the environment

Hazardous components which must be listed on the label

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

R phrases

36/37/38	Irritating to eyes, respiratory system and skin.
43	May cause sensitisation by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S phrases

- 24 Avoid contact with skin.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 37 Wear suitable gloves.
 57 Use appropriate containment to avoid environmental contamination.
 60 This material and its container must be disposed of as hazardous waste.

Additional advice on labelling

The product is classified and labelled in accordance with EC directives or respective national laws.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Methacrylate/Acrylate resin(s).

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
227-561-6	Isobornylacrylate	25-50 %
5888-33-5	Xi - Irritant, N - Dangerous for the environment R43-36/37/38-51-53	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
212-782-2	2-hydroxyethyl methacrylate	10-30 %
868-77-9	Xi - Irritant R36/38-43	
607-124-00-X	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317	
201-177-9	acrylic acid, prop-2-enoic acid	<5 %
79-10-7	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R10-20/21/22-35-50	
607-061-00-8	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H226 H332 H312 H302 H314 H400	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move to fresh air. Consult a physician after significant exposure.

After contact with skin

Wash off with soap and plenty of water. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

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

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, 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

Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin. Ensure adequate ventilation, especially in confined areas. Breathing apparatus needed only when aerosol or mist is formed. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

Advice on protection against fire and explosion

No special technical protective measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on storage compatibility

No special restrictions on storage with other products.

Further information on storage conditions

Keep away from direct sunlight. Keep away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
79-10-7	Acrylic acid (OLD)	10	30		TWA (8 h)	OES
		20	60		STEL (15 min)	OES

8.2. Exposure controls

Occupational exposure controls

Even in case of a full release, due to the small amount of substances present, it is not expected that

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exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

Protective and hygiene measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.
Respirator with filter for organic vapour
Recommended Filter type: A2

Hand protection

solvent-resistant gloves
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

tightly fitting safety goggles

Skin protection

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear
Odour:	characteristic

	Test method
pH-Value (at 20 °C):	5

Changes in the physical state

Flash point:	97 °C
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Explosive properties

None.

Density (at 20 °C):	1,0 g/cm ³
Water solubility:	practically insoluble
Viscosity / dynamic: (at 20 °C)	800 mPa·s
Solvent content:	0,0%

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Stable under recommended storage conditions.

10.5. Incompatible materials

oxidizing agents, amines, strong acids

10.6. Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50	5050 mg/kg	Rat	
79-10-7	acrylic acid, prop-2-enoic acid				
	oral	LD50 mg/kg	> 192	Rat	
	dermal	LD50 mg/kg	> 290	Rabbit	
	inhalative (4 h) vapour	LC50	3,6 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

Skin irritation. Severe eye irritation.

Sensitising effects

May cause sensitisation by skin contact.

Severe effects after repeated or prolonged exposure

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

SECTION 12: Ecological information

12.1. Toxicity

Ecological injuries are not known or expected under normal use. No data is available on the product itself. May cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96	Pimephales promelas	
79-10-7	acrylic acid, prop-2-enoic acid					
	Acute fish toxicity	LC50	27 mg/l	96	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	95 mg/l	48	Daphnia magna	

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 dangerous substances
Classified as hazardous waste.

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SECTION 14: Transport information


Land transport (ADR/RID)

14.1. UN number:	3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9 
Classification code:	M6
Limited quantity:	LQ7
Hazard No:	90
Tunnel restriction code:	E

Other applicable information (land transport)

Special Provisions: 274 335 601
E1
3

Inland waterways transport (ADN)


14.1. UN number:	3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9 

Classification code: M6
Limited quantity: LQ7

Other applicable information (inland waterways transport)

Special Provisions: 274 - 601
E1

Marine transport (IMDG)

14.1. UN number:	3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9 

Marine pollutant: •

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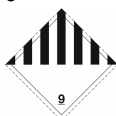
Limited quantity: 5 L
EmS: F-A, S-F

Other applicable information (marine transport)

Special Provisions: 274, 909, 944
E1

Air transport (ICAO)

14.1. UN number: 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Isobornylacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 914
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 914
IATA-max. quantity - Cargo: 450 L

Other applicable information (air transport)

E1
Y914
Special Provisions: A97 A158

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

10 Flammable.
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
35 Causes severe burns.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
50 Very toxic to aquatic organisms.
51 Toxic to aquatic organisms.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.

Full text of H statements referred to under Sections 2 and 3

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.

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H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)