Safety Data Sheet

according to UK REACH Regulation

UV Adhesive VERIFIX LV 740 VIS

Revision date: 30.11.2023

Product code: BOLV74V10

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

1.1. Product identifier

UV Adhesive VERIFIX LV 740 VIS

Further trade names

BO LV74V10, 100 g BO LV74V25, 250 g BO LV74V1K, 1000 g UFI:

XEKN-373N-88FM-22S9

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	Emergency CONTACT (24-Hou	ur-Number):GBK GmbH +49 (0)6132-84463
and the second sec		

<u>number:</u>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

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

GB CLP Regulation

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

Signal word:







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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 statemer	Its
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.

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 (GB CLP Regulation	· ·		
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]he	pt-2-yl acrylate		< 75 %
	227-561-6		01-2119957862-25	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. H319 H317 H335 H400 H410	1, STOT SE 3, Aquatic Ac	ute 1, Aquatic Chronic 1; H315	
73324-00-2	Urethane acrylate			< 25 %
	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 T H332 H312 H302 H314 H400	orr. 1A, Aquatic Acute 1; H226		
868-77-9	2-hydroxyethyl methacrylate	< 25%		
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)ph	< 2%		
	278-355-8	015-203-00-X	01-2119972295-29	
	Repr. 2, Skin Sens. 1B, Aquatic Ad			

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Cond	c. Limits, M-factors and ATE			
5888-33-5	227-561-6	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	< 75 %		
	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	< 25% %		
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 5050 mg/kg				
75980-60-8	278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 2% %		
	dermal: LD5	0 = >2000 mg/kg; oral: LD50 = >5000 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.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Irritation to respiratory tract

Skin contact : May cause an allergic skin reaction. Eve contact : Causes serious eve 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

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces irritant fumes. Carbon monoxide, Carbon dioxide, Hydrocarbons, Nitrogen oxides (NOx)

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.



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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.

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-10-7	Acrylic acid	10	29		TWA (8 h)	WEL
		20	59		STEL (1 min)	WEL

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DNEL/DMEL values

CAS No	Substance			
DNEL type		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/m³
Worker DNEL,	acute	inhalation	systemic	30 mg/m³
Worker DNEL, long-term		inhalation	local	30 mg/m³
Worker DNEL,	acute	inhalation	local	30 mg/m³

PNEC values

CAS No	Substance					
Environment	al compartment	Value				
5888-33-5	5 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate					
Freshwater		0,00092 mg/l				
Marine water	r	0,000092 mg/l				
Freshwater s	sediment	0,145 mg/kg				
Marine sedin	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 m						
Marine sedin	nent	0,00234 mg/kg				

8.2. Exposure controls

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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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid

colourless

characteristic

Physical state: Colour: Odour:

pH-Value (at 21 °C):	

9.2. Other information

Other safety characteristics

Solvent content: Viscosity / dynamic: (at 23 °C)

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 (CO2), Hydrocarbons

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

Test method 2,5 5% emulsion

0% 80 mPa·s

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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	>5000	Rat					
	dermal	LD50 mg/kg	>5000	Rabbit					
79-10-7	acrylic acid, prop-2-enoid	c acid							
	oral	LD50 mg/kg	500	Rat					
	dermal	LD50 mg/kg	1100	Rat					
	inhalation (4 h) vapour	LC50	11 mg/l	Rat					
	inhalation dust/mist	ATE	1,5 mg/l						
868-77-9	2-hydroxyethyl methacry	late							
	oral	LD50 mg/kg	5050	Rat					
	dermal	LD50 mg/kg	>5000	Rabbit					
75980-60-8	Diphenyl(2,4,6-trimethylk	enzoyl)phos	phine oxide						
	oral	LD50 mg/kg	>5000	Rat	OECD 401				
	dermal	LD50 mg/kg	>2000	Rat	OECD 402				

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

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.

11.2. Information on other hazards

Endocrine disrupting properties

This information is not available.

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		Daphnia magna (Big water flea)				
868-77-9	2-hydroxyethyl methacryla	ate							
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas				
75980-60-8	Diphenyl(2,4,6-trimethylbe	enzoyl)phos	phine oxide						
	Acute fish toxicity	LC50	10 mg/l	96 h	Danio rerio (zebrafish)				
	Acute crustacea toxicity	EC50 mg/l	3,53		Daphnia magna (Big water flea)	OECD 202			
	Acute bacteria toxicity	(EC50 mg/l)	2,01		Pseudokirchneriella subcapitata	OECD 201			

12.2. Persistence and degradability

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation							
5888-33-5	3-5 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate							
		57%	28					
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide							
	aerob	0-10%	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

BCF

CAS No	Chemical name	BCF	Species	Source
	Diphenyl(2,4,6-trimethylbenzoyl)phosph ine oxide	18-22		

12.5. Results of PBT and vPvB assessment

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

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.

12.7. Other adverse effects

This information is not available.

Further information

No data is available on the product itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

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)

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:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
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:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L

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Excepted quantity:	E1	
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:	 -	
Hazard label:	8	
Special Provisions:	223, 274	
Limited quantity:	5 L	
Excepted quantity:	E1	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1760	
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Acrylic Acid)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:		
Hazard label:	8	
Special Provisions:	A3 A803	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	852	
IATA-max. quantity - Passenger:	5 L	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	856 60 L	
14.5. Environmental hazards	60 L	
		\
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	



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Employment restrictions:

Water hazard class (D):

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

2 - obviously 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): 2,11,12.

Classification for mixtures and used evaluation method according to GB CLP Regulation

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.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.)