

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Revision date: 27.02.2024

CONLOC UV 680

Product code: 740680_1

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

CONLOC UV 680

Product group: Adhesives

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

UV curing adhesive

1.3. Details of the supplier of the safety data sheet

Company name:	EGO Dichtstoffwerke GmbH & Co. Betriebs KG		
Street:	Kaltenbrunn 27		
Place:	D-82467 Garmisch-Partenkirchen		
Telephone:	+49 (0)8821 956 90	Telefax:	+49 (0)8821 956 990
E-mail:	info@ego.de		
Contact person:	Laboratory	Telephone:	+49 (0)8821 956 960
E-mail:	EGO-Labor@ego.de		
Internet:	www.ego.de		

1.4. Emergency telephone

+49 55119240 (24h/7d)

number:GIZ-Nord, Göttingen
Member of EPECs network**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
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**

2- (methacryloxy) ethyl phosphate
Acrylsäure
2-hydroxyethyl methacrylate
ethoxylated trimethylolpropane triacrylate
2-hydroxyethyl acrylate
Isobornyl acrylate

Signal word: Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing Vapor / spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

2.3. Other hazards

Do not expose skin and above all eyes to direct or reflected UV light during curing.
Should not be released into the environment.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
5888-33-5	Isobornyl acrylate			< 50 %
	227-561-6			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H317 H335 H400 H410			
868-77-9	2-hydroxyethyl methacrylate			< 50 %
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
28961-43-5	ethoxylated trimethylolpropane triacrylate			< 10 %
	Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H319 H317 H412			
30697-40-6	Carboxyfunctional polyester acrylate			< 10 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
79-10-7	Acrylsäure			< 5 %
	201-177-9		01-2119452449-31	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Acute 1; H226 H332 H312 H302 H314 H318 H335 H400			
52628-03-2	2-(methacryloxy)ethyl phosphat			< 3 %
			01-2119980575-25	
	Eye Dam. 1; H318			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid			< 1 %
	Repr. 2; H361f			
818-61-1	2-hydroxyethyl acrylate			< 0,1 %
	212-454-9	607-072-00-8		
	Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1; H311 H314 H317 H400			

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 Conc. Limits, M-factors and ATE	
5888-33-5	227-561-6	Isobornyl acrylate	< 50 %
		dermal: LD50 = > 3000 mg/kg; oral: LD50 = 4350 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	< 50 %
		oral: LD50 = 5050 mg/kg	
79-10-7	201-177-9	Acrylsäure	< 5 %
		inhalation: LC50 = >5,1 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 640 mg/kg; oral: LD50 = 1500 mg/kg	
75980-60-8		Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid	< 1 %
		oral: LD50 = >5000 mg/kg	
818-61-1	212-454-9	2-hydroxyethyl acrylate	< 0,1 %
		dermal: ATE = 300 mg/kg Skin Sens. 1; H317: >= 0,2 - 100	

Further Information

The product contains the following SVHC (substance of very high concern) candidate above the limit of consideration: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; reason for inclusion: toxic for reproduction (Article 57c)

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take off contaminated clothing and shoes immediately. First aider needs to protect himself. Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist.

After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician. Do not induce vomiting.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

If swallowed with subsequent vomiting, aspiration into the lungs may occur, resulting in chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Foam, Carbon dioxide (CO₂).
Extinguishing materials should be selected according to the surrounding area.

Unsuitable extinguishing media

High volume water jet

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5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Ensure adequate ventilation. Do not breath vapour.

Protective clothing. Avoid contact with skin, eye and clothing.

For non-emergency personnel

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.3. Methods and material for containment and cleaning up**For containment**

Cover the sewers.

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the assimilated material according to the section on waste disposal.

Other information

Provide adequate ventilation.

6.4. Reference to other sections

See also section 7, 8, 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid the formation of aerosol. Avoid contact with skin and eyes.

Provide sufficient air exchange and/or exhaust in work rooms.

To maintain product quality, do not store in heat or direct sunlight.

Advice on protection against fire and explosion

Keep away from heat.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin. Avoid contact with eyes. Do not breath vapour.

Wash hands when done working with material; at breaks, lunch, shift changes, etc. Take off immediately all contaminated clothing

When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Protect against light. Never return unused material to storage

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receptacle.

Hints on joint storage

No special precautions required.

7.3. Specific end use(s)

Adhesives

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
79-10-7	Acrylic acid; Prop-2-enoic acid	10	29		TWA (8 h)	
		20	59		STEL (1 min)	

8.2. Exposure controls**Appropriate engineering controls**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Do not expose skin and above all eyes to direct or reflected UV light during curing.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses with side-shields.

Hand protection

Protective gloves: Glove material Nitrile rubber ($\geq 0,4$ mm) Break through time > 8h.

As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin protection

Long sleeved clothing

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

In case of insufficient ventilation wear suitable respiratory equipment.

For short-term or low-load respiratory filter device (filter A); in case of intensive or prolonged exposure use self-contained breathing apparatus

Thermal hazards

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

Environmental exposure controls

Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:

liquid

Colour:

colourless

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Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		>100 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Vapour pressure:		not determined
Density (at 25 °C):		approx. 1,1 g/cm ³
Particle characteristics:		not applicable

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties
not determined

Other safety characteristics

Viscosity / dynamic:
(at 25 °C) approx. 800 mPa·s

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reactions with correct storage and handling.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Exposure to light.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

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

No data is available on the product itself.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5888-33-5	Isobornyl acrylate				
	oral	LD50 4350 mg/kg	rat		
	dermal	LD50 > 3000 mg/kg	rabbit		
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5050 mg/kg	Rat		
79-10-7	Acrylsäure				
	oral	LD50 1500 mg/kg	rat		
	dermal	LD50 640 mg/kg	rabbit		
	inhalation (4 h) vapour	LC50 >5,1 mg/l	rat	OECD Test Guideline 403	
	inhalation dust/mist	ATE 1,5 mg/l			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid				
	oral	LD50 >5000 mg/kg	rat		
818-61-1	2-hydroxyethyl acrylate				
	dermal	ATE 300 mg/kg			

Irritation and corrosivity

Serious eye damage/eye irritation

Causes skin irritation.

Sensitising effects

May cause sensitisation by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

not defined

STOT-single exposure

not defined

STOT-repeated exposure

not defined

Aspiration hazard

Inhalation may cause respiratory irritation.

Information on likely routes of exposure

Skin contact, Inhalation

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

Toxic for Fish. Toxic to aquatic organisms.

Do not empty into drains or the aquatic environment. Leakage of already small quantities into the soil hazardous to drinking water

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5888-33-5	Isobornyl acrylate					
	Acute fish toxicity	LC50 1,8 mg/l	96 h	Danio rerio (zebra fish)		
	Acute algae toxicity	ErC50 2,7 mg/l	96 h	Pseudokirchneriella subcapitata (green algae)		
	Acute crustacea toxicity	EC50 1,1 mg/l	48 h	Daphnia magna (Water flea)		
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 227 mg/l	96 h	Pimephales promelas		
79-10-7	Acrylsäure					
	Acute algae toxicity	ErC50 0,13 mg/l	72 h	Scenedesmus capricornutum (fresh water algae)		
	Crustacea toxicity	NOEC 19 mg/l	21 d	Daphnia magna (Water flea)		

12.2. Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
79-10-7	Acrylsäure				
	OECD Test Guideline 301	81%			
	Easily biodegradable (concerning to the criteria of the OECD); aerobic				

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47
79-10-7	Acrylsäure	0,46

BCF

CAS No	Chemical name	BCF	Species	Source
79-10-7	Acrylsäure	3,16		OECD Test Guideline 107

12.4. Mobility in soil

not defined

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.

12.7. Other adverse effects

not defined

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Disposal recommendations

Dispose of as special waste in compliance with local and national regulations.

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 - 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

Dispose of in accordance with local regulations.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(isobornylacrylate, Acrylic acid)**14.3. Transport hazard class(es):**

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

Other applicable information (land transport)

The product is not subject to the other provisions of ADR when packaged in quantities not exceeding 5 l / 5 kg (SV 375)

Marine transport (IMDG)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Isobornyl acrylate, Acrylic acid)**14.3. Transport hazard class(es):**

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

274, 335, 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

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Segregation group: acids

Other applicable information (marine transport)

The product may be transported according to IMDG Code, paragraph 2.10.2.7 if it is packed in quantities not exceeding 5 l / 5 kg.

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Isobornyl acrylate, Acrylic acid)**14.3. Transport hazard class(es):**

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A197

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

Other applicable information (air transport)

The product is not subject to the other provisions of IATA if it is packed in quantities not exceeding 5 l / 5 kg (A197)

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes



Danger releasing substance:

Acrylic acid. isobornylacrylate

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2004/42/EC on VOC in
paints and varnishes:

0,0%

National regulatory information

Water hazard class (D):

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**

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This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,12,13,15.

This data sheet contains changes from the previous version in section(s): 3; 4.1-3; 6.1-4; 7.1-2; 8.1-2; 9; 10.2; 11; 12; 15.2;

Abbreviations and acronyms

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

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

Classification	Classification procedure
Skin Irrit. 2; H315	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.
H311	Toxic in contact with skin.
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.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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