

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 1 of 11

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

CONLOC UV 688

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 number:**

+49 55119240 (24h/7d)  
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

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Isobornyl acrylate  
2-hydroxyethyl methacrylate  
acrylic acid; prop-2-enoic acid  
(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane

Signal word: Danger

**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

**Precautionary statements**

P260	Do not breath vapour.
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**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 2 of 11

P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P350	IF ON SKIN: Gently wash with plenty of soap and water.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local regulation.

**Additional advice on labelling**

Testing regarding acute or chronic aquatic effects shows that no eco-labelling is required.

**2.3. Other hazards**

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

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

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
5888-33-5	Isobornyl acrylate			< 40 %
	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			< 40 %
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
79-10-7	acrylic acid; prop-2-enoic acid			< 3 %
	201-177-9	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			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			< 3 %
	219-784-2		01-2119513212-58	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			< 1 %
	278-355-8	015-203-00-X		
	Repr. 2; H361f			

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 3 of 11

**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 dermal: LD50 = > 3000 mg/kg; oral: LD50 = 4350 mg/kg	< 40 %
868-77-9	212-782-2	2-hydroxyethyl methacrylate oral: LD50 = 5050 mg/kg	< 40 %
79-10-7	201-177-9	acrylic acid; prop-2-enoic acid	< 3 %
		inhalation: LC50 = > 10 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 1000 mg/kg; oral: LD50 = > 300 mg/kg STOT SE 3; H335: >= 1 - 100	
2530-83-8	219-784-2	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane	< 3 %
		inhalation: LC50 = > 5,3 mg/l (vapours); dermal: LD50 = 4250 mg/kg; oral: LD50 = 8025 mg/kg	

**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**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist.  
If unconscious place in recovery position and seek medical advice.

**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.

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

Itching, rashes.

**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**

Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>).  
Extinguishing materials should be selected according to the surrounding area.

**Unsuitable extinguishing media**

High volume water jet

**5.2. Special hazards arising from the substance or mixture**

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 4 of 11

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

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

Ensure adequate ventilation. Do not breath vapour. Wear personal protection equipment.

**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. Local authorities should be advised if significant spillages cannot be contained.

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

Cover the sewers.

**For cleaning up**

Small amounts: Wipe up with absorbent material (e.g. cloth, fleece).

Substantial quantities: 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**

Reference to other sections: 13

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

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Keep away from direct sunlight.

Wash hands when done working with material; at breaks, lunch, shift changes, etc.

**Advice on protection against fire and explosion**

No special precautions required.

**Advice on general occupational hygiene**

When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Wash hands when done working with material; at breaks, lunch, shift changes, etc. Take off immediately all contaminated clothing

**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 receptacle.

**Hints on joint storage**

No special precautions required.

**7.3. Specific end use(s)**

Adhesives

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 5 of 11

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

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

**DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			
Worker DNEL, acute		dermal	systemic	21 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	147 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	21 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	147

**PNEC values**

CAS No	Name of agent	Value
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Soil		0,13 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l

**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.

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

Safety glasses with side-shields.

**Hand protection**

Protective gloves: Glove material Nitrile rubber

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.

**Skin protection**

Protective suit

**Respiratory protection**

Ensure adequate ventilation, especially in confined areas.

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. respirator with A filter

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 6 of 11

**Thermal hazards**

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

**Environmental exposure controls**

Prevent product from entering drains.

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

Physical state:	liquid	
Colour:	colourless transparent	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		No information available.
Boiling point or initial boiling point and boiling range:		No information available.
Flash point:		101 °C
pH-Value:		No information available.
Water solubility:		insoluble
Density:		No information available.
Particle characteristics:		not applicable

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

Explosive properties

The product is: not Explosive.

**Further Information**

The product is: not auto-flammable

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

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

The product is chemically stable.

**10.3. Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**

Exposure to light. Keep away from heat and sources of ignition.

**10.5. Incompatible materials**

Strong oxidizing agents

Strong acids and strong bases

**10.6. Hazardous decomposition products**

In case of fire hazardous decomposition products may be produced such as:

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 7 of 11

**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

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	acrylic acid; prop-2-enoic acid				
	oral	LD50 > 300 mg/kg	Rat		
	dermal	LD50 > 1000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 10 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane				
	oral	LD50 8025 mg/kg	rat	OECD Test Guideline 401	
	dermal	LD50 4250 mg/kg	rabbit	OECD Test Guideline 402	
	inhalation vapour	LC50 > 5,3 mg/l	rat	OECD Test Guideline 403	

**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**

This information is not available.

**STOT-single exposure**

This information is not available.

**STOT-repeated exposure**

This information is not available.

**Aspiration hazard**

Inhalation may cause respiratory irritation.

**Information on likely routes of exposure**

Skin contact, Inhalation

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

Discharge into the environment must be avoided.  
Testing regarding acute or chronic aquatic effects shows that no eco-labelling is required.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 8 of 11

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		
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane					
	Acute fish toxicity	LC50 55 mg/l	96 h	Cyprinus carpio (Carp)	OECD Test Guideline 203	
	Acute algae toxicity	ErC50 255 mg/l	72 h	Scenedesmus quadricauda (Green algae)	OECD Test Guideline 201	
	Acute crustacea toxicity	EC50 473 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202	
	Fish toxicity	NOEC 100 mg/l	21 d	Daphnia magna (Water flea)		
	Algae toxicity	NOEC 53 mg/l	3 d	Scenedesmus capricornutum (fresh water algae)	OECD Test Guideline 201	

**12.2. Persistence and degradability**

No data is available on the product itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			
	OECD Test Guideline 301 (aerobic)	37%		

**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	acrylic acid; prop-2-enoic acid	0,35

**12.4. Mobility in soil**

This information is not available.

**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.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 % or higher.

**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.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 9 of 11

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

Should not be released into the environment. Dispose of in accordance with local / national regulations  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Contaminated packaging**

Dispose of waste according to applicable local, state, and federal regulations.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

Marine pollutant: no

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

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**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

**National regulatory information**

Water hazard class (D): 1 - slightly 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): 2,3,9,10,12.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 10 of 11

**Abbreviations and acronyms**

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  
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

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

Classification	Classification procedure
Skin Irrit. 2; H315	
Eye Dam. 1; H318	
Skin Sens. 1; H317	
STOT SE 3; H335	Calculation method

**Relevant H and EUH statements (number and full text)**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 688**

Revision date: 30.01.2024

Product code: 7406886\_0

Page 11 of 11

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.
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.

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