

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONLOC UV 685**

Revision date: 01.02.2023

Product code: 7406856\_0

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

CONLOC UV 685

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. 1B; 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  
(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 breathe vapours, mist or gas.

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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			< 25 %
	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			< 5 %
	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			

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

**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	< 40 %	
	dermal: LD50 = > 3000 mg/kg; oral: LD50 = 4350 mg/kg			
868-77-9	212-782-2	2-hydroxyethyl methacrylate	< 25 %	
	oral: LD50 = 5050 mg/kg			
79-10-7	201-177-9	acrylic acid; prop-2-enoic acid	< 5 %	
	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**

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

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**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.

**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**

No information available.

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.

**5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Wear personal protection equipment.

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

Ensure adequate ventilation. Do not breathe 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.

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

Cover the sewers.

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**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).

**Other information**

Provide adequate ventilation.

**6.4. Reference to other sections**

See also section 7, 8, 12, 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.

**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. Do not breathe gas/vapour.

**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**

Not required

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

UV adhesive

**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

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**PNEC values**

CAS No	Name of agent	
	Environmental compartment	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

**Additional advice on limit values**

Derivation of DNEL(s): This information is not available.  
Derivation of the PNEC: This information is not available.

**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

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**

Long sleeved clothing

**Respiratory protection**

Ensure adequate ventilation, especially in confined areas.

Maintain air concentrations below occupational exposure standards.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. respirator with A filter

**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:	clear, colourless
Odour:	characteristic
Odour threshold:	not determined

Melting point/freezing point:

**Test method**  
no data available

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Boiling point or initial boiling point and boiling range:	no data available
Flammability:	no data available
Lower explosion limits:	no data available
Upper explosion limits:	no data available
Flash point:	101 °C PMCC (Penski-Martens)
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH-Value:	no data available
Viscosity / kinematic:	not determined
Water solubility:	insoluble
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	no data available
Density:	no data available
Relative vapour density:	no data available
Particle characteristics:	not applicable

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

## Explosive properties

The product is: not Explosive.

## Self-ignition temperature

Solid:

no data available

Gas:

no data available

**Other safety characteristics**

Evaporation rate:

no data available

Softening point:

no data available

Viscosity / dynamic:

no data available

**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**

Stable under normal conditions.

No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Exposure to light.

Heat, flames and sparks.

**10.5. Incompatible materials**

Strong oxidizing agents

Strong acids and strong bases

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

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.

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**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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5888-33-5	Isobornyl acrylate				
	oral	LD50 mg/kg 4350	rat		
	dermal	LD50 mg/kg > 3000	rabbit		
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg 5050	Rat		
79-10-7	acrylic acid; prop-2-enoic acid				
	oral	LD50 mg/kg > 300	Rat		
	dermal	LD50 mg/kg > 1000	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 mg/kg 8025	rat	OECD Test Guideline 401	
	dermal	LD50 mg/kg 4250	rabbit	OECD Test Guideline 402	
	inhalation vapour	LC50 > 5,3 mg/l	rat	OECD Test Guideline 403	

**Irritation and corrosivity**

Irritating to skin.

**Sensitising effects**

May cause sensitisation by skin contact.

**Carcinogenic/mutagenic/toxic effects for reproduction**

This information is not available.

**STOT-single exposure**

Inhalation of vapours in high concentration may cause irritation of respiratory system.

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

**Information on likely routes of exposure**

Skin contact, Inhalation

**Specific effects in experiment on an animal**

no data available

**Practical experience**

no data available

**11.2. Information on other hazards**

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**Further information**

Health injuries are not known or expected under normal use.

**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.

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**

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****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**

no data 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.

no data available

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**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**

no data available

**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>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

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

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**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**

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**Changes**

This data sheet contains changes from the previous version in section(s): 2,5,6,7,8,9,10,11,12,13,16.

**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

**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.
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.



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#### 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.)*