

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 1 of 10

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

Conloc UV 688

Product group: Klebstoffe

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: Lilienthalstraße 7
Place: GB-82205 Gilching
Telephone: 08105-217-0 Telefax: 08105-217-33
e-mail: Forster-Hummel@ego.de P.Goldmann@ego.de
Contact person: Eva Forster-Hummel; Telephone: - 28; -27
Petra Goldmann
Internet: <http://www.ego.de>
Responsible Department: Labor

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**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

May cause respiratory irritation.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

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

2-hydroxyethyl methacrylate

(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane

acrylic acid, prop-2-enoic acid

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

Signal word: Danger**Pictograms:**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 2 of 10

Hazard statements

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

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
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.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulation.

Additional advice on labelling

Testing for acute and chronic aquatic effects leads to categorization 3

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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 3 of 10

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
868-77-9	2-hydroxyethyl methacrylate			< 50 %
	212-782-2	607-124-00-X		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317			
5888-33-5	Isobornylacrylat			< 50 %
	227-561-6			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 2; H315 H319 H335 H411			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			< 5 %
	219-784-2		01-2119513212-58	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
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			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			< 1 %
	278-355-8			
	Repr. 2, Skin Sens. 1B, Aquatic Acute 2, Aquatic Chronic 2; H361f H317 H401 H411			

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

Further Information

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

This information is not available.

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

Treat symptomatically.

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 4 of 10

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

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

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**

Ensure adequate ventilation. Do not breath vapour. 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

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

6.4. Reference to other sections

Reference to other sections: 12

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.

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.

Advice on storage compatibility

No special precautions required.

Further information on storage conditions

Maximum storage temperature: < 30 °C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 5 of 10

DNEL/DMEL values

CAS No	Substance	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 ³
Worker DNEL, long-term		dermal	systemic	21 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	147

PNEC values

CAS No	Substance	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.

Protective and hygiene measures

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

Eye/face protection

Safety glasses with side-shields.

Hand protection

Protective gloves: Glove material Nitrile rubber (0,35 mm), butyl-rubber (0,5 mm) Break through time \geq 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

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

Environmental exposure controls

Prevent product from entering drains.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 6 of 10

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:	not applicable
-----------	----------------

Changes in the physical state

Initial boiling point and boiling range:	120 °C
--	--------

Flash point:	> 100 °C
--------------	----------

Explosive properties

The product is: not Explosive.

Ignition temperature:	214 °C
-----------------------	--------

Density:	approx. 1,1 g/cm ³
----------	-------------------------------

Water solubility:	insoluble
-------------------	-----------

Viscosity / dynamic: (at 23 °C)	approx. 85 mPa·s
------------------------------------	------------------

Solvent content:	0 %
------------------	-----

9.2. Other 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.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition productsIn case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 7 of 10

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
868-77-9	2-hydroxyethyl methacrylate	oral	LD50	5050 mg/kg	Rat	
5888-33-5	Isobornylacrylat	oral	LD50	4350 mg/kg	rat	
		dermal	LD50	> 3000 mg/kg	rabbit	
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
		inhalative vapour	LC50	> 5,3 mg/l	rat	OECD Test Guideline 403
79-10-7	acrylic acid, prop-2-enoic acid	oral	LD50	> 192 mg/kg	Rat	
		dermal	LD50	> 290 mg/kg	Rabbit	
		inhalative (4 h) vapour	LC50	3,6 mg/l	Rat	
		inhalative aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

Irritating to eyes, respiratory system and skin.

Sensitising effects

May cause sensitisation by skin contact.

STOT-single exposure

This information is not available.

Severe effects after repeated or prolonged exposure

This information is not available.

Carcinogenic/mutagenic/toxic effects for reproduction

This information is not available.

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

Print date: 30.03.2016

Product code: 7406886_0

Page 8 of 10

CAS No	Chemical name	Method	Dose	[h] [d]	Species	Source
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	
5888-33-5	Isobornylacrylat					
	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)	
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 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
	Acute bacteria toxicity	(255 mg/l)		0 h	EC50/72h/algae =	OECD Test Guideline 201
79-10-7	acrylic acid, prop-2-enoic acid					
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna	
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute bacteria toxicity	(> 1000 mg/l)		0,5 h		

12.2. Persistence and degradability

This information is not available.

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

This information is not available.

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

no data available

12.6. Other adverse effects

This information is not available.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 9 of 10

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Should not be released into the environment. Dispose of as special waste in compliance with local and national regulations. Dispose of in accordance with the European Directives on waste and hazardous waste. 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)**

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

Marine transport (IMDG)

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

Marine pollutant: no

Air transport (ICAO)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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****National regulatory information**

Water contaminating class (D): 2 - water contaminating

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): 2,3,12,14.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 688

Print date: 30.03.2016

Product code: 7406886_0

Page 10 of 10

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.
H411	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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)