Safety Data Sheet

according to Regulation (EC) No 1907/2006

Conloc UV 685

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

1.1. Product identifier

Conloc UV 685

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; Petra Goldmann Telephone: - 28; -27
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
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
May cause respiratory irritation.
Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Isobornylacrylat
2-hydroxyethyl methacrylate
acrylic acid, prop-2-enoic acid
(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane

Signal word: Danger

Pictograms:

Hazard statements

H335	May cause respiratory irritation.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing vapourgas.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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 cronic 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5888-33-5	Isobornylacrylat			<50 %
	227-561-6			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 2; H315 H319 H335 H411			
868-77-9	2-hydroxyethyl methacrylate			<25 %
	212-782-2	607-124-00-X		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 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			< 5 %
	219-784-2		01-2119513212-58	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			

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.

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

No information available.

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 (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 (NOx), dense black smoke.

5.3. Advice for firefighters

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

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. 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.

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

Not required

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		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/m³
Worker DNEL, long-term		dermal	systemic	21 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	147

PNEC values

CAS No	Substance	
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.

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 Do not breathe gas/vapour.

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 >= 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.
Maintain air concentrations below occupational exposure standards.
In case of insufficient ventilation wear suitable respiratory equipment.

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
Odour:	characteristic

		Test method
pH-Value:	not applicable	
Changes in the physical state		
Melting point:	no data available	
Initial boiling point and boiling range:	no data available	
Softening point:	no data available	
Flash point:	>100 °C	
Flammability		
Solid:	no data available	
Gas:	no data available	
Explosive properties		
The product is: not Explosive.		
Lower explosion limits:	no data available	
Upper explosion limits:	no data available	
Ignition temperature:	no data available	
Auto-ignition temperature		
Solid:	no data available	
Gas:	no data available	
Decomposition temperature:	no data available	
Vapour pressure:	no data available	
Density:	approx. 1,1 g/cm³	
Water solubility:	insoluble	
Viscosity / dynamic:	approx. 3500 mPa·s	
Vapour density:	no data available	
Evaporation rate:	no data available	
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

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

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

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
5888-33-5	Isobornylacrylat				
	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	> 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		
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

Irritation and corrosivity

May cause irreversible eye damage.
The product causes irritation of eyes, skin and mucous membranes.

Sensitising effects

May cause sensitisation by skin contact.

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

no data available

Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

Aspiration hazard

no data available

Specific effects in experiment on an animal

no data available

Practical experience

Observations relevant to classification

no data available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Leakage of alredy small quantities into the soil hazardous to drinking water
Testing for acute and cronic aquatic effects leads to categorization 3

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] | [d]	Species	Source
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)	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	
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	
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)	
	Algea 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

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

no data available

12.6. Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

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: Not restricted

14.2. UN proper shipping name: Not restricted

14.3. Transport hazard class(es): Not restricted

14.4. Packing group: Not restricted

Marine transport (IMDG)

14.1. UN number: Not restricted

14.2. UN proper shipping name: Not restricted

14.3. Transport hazard class(es): Not restricted

14.4. Packing group: Not restricted

Air transport (ICAO)

14.1. UN number: Not restricted

14.2. UN proper shipping name: Not restricted

14.3. Transport hazard class(es): Not restricted

14.4. Packing group: 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. 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): 1,2,3,6,7,8,9,10,11,12,14,15.

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.
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.)