

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Conloc UV 683

Print date: 13.02.2017

Product code: 740683_1

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

Conloc UV 683

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:	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**

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 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

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

2-hydroxyethyl methacrylate
acrylic acid, prop-2-enoic acid
maleic acid
tert-Butylperbenzoat
Isobornylacrylat

Signal word: Danger

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Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
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.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local regulation.

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

Chemical characterization

Mixture of substances listed below with nonhazardous additions.

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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			<50 %
	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			
24650-42-8	2,2-Dimethoxy-2-phenylacetophenon			<5 %
	246-386-6			
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
614-45-9	tert-Butylperbenzoat			> 1 %
	210-382-2			
	Org. Perox. C, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1; H242 H332 H315 H317 H400			
110-16-7	maleic acid			< 1 %
	203-742-5	607-095-00-3		
	Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H302 H319 H335 H315 H317			

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**

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist. If victim is at risk of losing consciousness, position and transport on their side.

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

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.

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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

Heating or fire can release toxic gas.

Fire may cause evolution of: nitrogen oxides (NO_x), Carbon oxides**5.3. Advice for firefighters**

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

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.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Prevent spreading over a wide area (e.g. by containment or oil barriers).

Substantial quantities: Soak up with inert absorbent material.

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

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**

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

Keep away from heat.

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

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8.1. Control parameters**Additional advice on limit values**

2-Hydroxyethylmethacrylat
MAK see chapter IIb

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

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.

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

Long sleeved clothing

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

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:	transparent
Odour:	characteristic

Test method

pH-Value:	not applicable
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Changes in the physical state

Melting point:	not determined
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Initial boiling point and boiling range:	not determined
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Flash point:	> 100 °C
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Explosive properties

The product is: not Explosive.

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Lower explosion limits:	not determined
Upper explosion limits:	not determined
Density:	approx. 1,05 g/cm ³
Water solubility:	insoluble
Solubility in other solvents	
0 %	
Viscosity / dynamic: (at 20 °C)	approx. 800 mPa·s
Solvent content:	0 %

9.2. Other information

The product is: not auto-flammable

SECTION 10: Stability and reactivity**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

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****Acute toxicity**

LD50 Oral >2000 mg/kg (Rat)

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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		
614-45-9	tert-Butylperbenzoat	oral	LD50	1012 mg/kg	rat	
		inhalative vapour	ATE	11 mg/l		
		inhalative aerosol	ATE	1,5 mg/l		
110-16-7	maleic acid	oral	ATE	500 mg/kg		

Irritation and corrosivity

The product causes irritation of eyes, skin and mucous membranes.

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.

Aspiration hazard

This information is not available.

Specific effects in experiment on an animal

This information is not available.

Practical experience**Observations relevant to classification**

This information is not available.

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

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

Toxic to aquatic organisms. Toxic for Fish.

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CAS No	Chemical name	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	

12.2. Persistence and degradability

This information is not available.

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

not applicable

12.6. Other adverse effects

This information is not 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.

Waste disposal number of waste from 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
Classified as hazardous waste.

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:**

UN 3082

14.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Acrylic acid. isobornylacrylate)

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14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 601

Limited quantity:

5 L

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

Other applicable information (land transport)

Special provisions: 274 335 601

E1

3

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

UN 3082

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

9

14.4. Packing group:

III

Hazard label:

9



Marine pollutant:

yes

Special Provisions:

274, 335

Limited quantity:

5 L

EmS:

F-A, S-F

Segregation group:

acids

Other applicable information (marine transport)

Special provisions: 274, 909, 944

E1

Air transport (ICAO)**14.1. UN number:**

UN 3082

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

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158

Limited quantity Passenger:

30 kg G

IATA-packing instructions - Passenger:

964

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IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

Other applicable information (air transport)

E1

Y964

Special provisions: A97 A158

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Acrylic acid. isobornylacrylate

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

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

2004/42/EC (VOC): 0,0 %

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): 2,3,10.

This data sheet contains changes from the previous version in section(s): 2; 3; 4; 6.; 7.; 8.1; 8.2; 9; 10; 11; 12; 14.7; 15.2;

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
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.
H411	Toxic 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.)