



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Conloc UV 651**

Print date: 15.12.2016

Product code: 751000100

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**Hazard statements**

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

**Precautionary statements**

P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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**

UV curing adhesive

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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]			
7534-94-3	Isobornylmethacrylate			<25 %
	231-403-1		01-2119886505-27	
	Aquatic Chronic 3; H412			
27813-02-1	Hydroxypropylmethacrylate			<20 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
142-90-5	Dodecylmethacrylate			<20 %
	205-570-6			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
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			
2495-27-4	Hexadecylmethacrylat			<3 %
	219-672-3			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
2549-53-3	Tetradecylmethacrylate			<3 %
	219-835-9			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			<2,5 %
	219-784-2		01-2119513212-58	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible).

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist.

**After contact with skin**Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
Consult physician if problems persist.**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. Do not induce vomiting. Consult a physician.

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

Skin: Rash, Redness, Inflammation.

Eyes: Irritation.

If inhaled: Respiratory irritation, Cough.



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#### **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**

Fire may cause evolution of: nitrogen oxides (NO<sub>x</sub>), Carbon oxides.  
Burning produces irritant fumes.

#### **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 breathe vapours or spray mist. Avoid contact with skin, eye and clothing.

#### **6.2. Environmental precautions**

Prevent spreading over a wide area (e.g. by containment or oil barriers). 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.  
Treat the assimilated material according to the section on waste disposal.

#### **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**

Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.

##### **Advice on protection against fire and explosion**

Keep away from heat.

##### **Further information on handling**

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Keep at temperatures between 8 and 21 °C.  
Protect against light. Never return unused material to storage receptacle.

##### **Advice on storage compatibility**

No special precautions required.

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

Adhesive

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No information available.

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

CAS No	Substance	Exposure route	Effect	Value
27813-02-1	Hydroxypropylmethacrylate			
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	14,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,8 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
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	Substance	Value
27813-02-1	Hydroxypropylmethacrylate	
Freshwater		0,904 mg/l
Marine water		0,904 mg/l
Freshwater (intermittent releases)		0,972 mg/l
Freshwater sediment		6,28 mg/kg
Marine sediment		6,28 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
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.

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

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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**

Avoid contact with skin. Protective gloves complying with EN 374.

Protective gloves NBR (Nitrile rubber). Layer thickness =>0,4mm.

Short term Protective index 2; >30 minutes; Long term Protective index 6; >480 minutes;

The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

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.

In case of insufficient ventilation wear suitable respiratory equipment. respirator with A filter

**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:	light yellow
Odour:	characteristic

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: not determined

Flash point: > 100 °C

**Flammability**

Solid: not determined

**Explosive properties**

no data available

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Decomposition temperature: not determined

Vapour pressure: not determined

Density: 1,1 g/cm<sup>3</sup>

Bulk density: not determined

Water solubility: insoluble

Viscosity / dynamic: not determined

Evaporation rate: not determined

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

Reacts with the following substances: Strong acids, Strong oxidizing agents.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**

Exposure to light. Stable under recommended storage conditions.

**10.5. Incompatible materials**

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

None under normal processing.

**10.6. Hazardous decomposition products**

Carbon oxides

No decomposition if used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Digestive organs: Irritation

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
7534-94-3	Isobornylmethacrylate	oral	LD50	3160 mg/kg	rat	
		dermal	LD50	>3000 mg/kg	rabbit	
27813-02-1	Hydroxypropylmethacrylate	oral	LD50	>2000 mg/kg	rat	OECD Test Guideline 401
		dermal	LD50	>5000 mg/kg	rabbit	
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

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**Irritation and corrosivity**

Serious eye damage/eye irritation  
Causes skin irritation.

**Sensitising effects**

May cause sensitisation by skin contact.

**STOT-single exposure**

May cause irritation of respiratory tract.

**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 flush into surface water or sanitary sewer system.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.





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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
7534-94-3	Isobornylmethacrylate					
	Acute fish toxicity	LC50	1,79 mg/l	96 h	Danio rerio (zebra fish)	OECD Test Guideline 203
	Acute algae toxicity	ErC50	2,66 mg/l	96 h	Pseudokirchneriella subcapitata (green algae)	OECD Test Guideline 201
	Acute crustacea toxicity	EC50	1,1 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
	Crustacea toxicity	NOEC	0,233 mg/l	21 d	Daphnia magna (Water flea)	
27813-02-1	Hydroxypropylmethacrylate					
	Acute fish toxicity	LC50	493 mg/l	96 h	Leuciscus idus (Golden orfe)	
	Acute crustacea toxicity	EC50	>130 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
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 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**

Not biodegradable

CAS No	Chemical name			
	Method	Value	d	Source
7534-94-3	Isobornylmethacrylate			
		70%		
	Readily biodegradable, according to appropriate OECD test.			
27813-02-1	Hydroxypropylmethacrylate			
	OECD Test Guideline 301 (aerobic)	94,2		
	Easily biodegradable (concerning to the criteria of the OECD)			
2530-83-8	(3-(2,3-Epoxypropoxy)propyl)trimethoxysilane			
	OECD Test Guideline 301 (aerobic)	37%		

**12.3. Bioaccumulative potential**

no data available

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
7534-94-3	Isobornylmethacrylate	5,09
27813-02-1	Hydroxypropylmethacrylate	0,97
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**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**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.

**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.

**Waste disposal number of used product**

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 as special waste in compliance with local and national 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.  
(Isobornylmethacrylat, Acrylsäure)**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

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Hazard No: 90  
Tunnel restriction code: E

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Isobornyl methacrylate, Acryl acid)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: 274, 335, 969  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-F

**Air transport (ICAO)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Isobornyl methacrylate, Acryl acid)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A197  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y964  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 964  
IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Isobornylmethacrylat, Acrylsäure

**14.6. Special precautions for user**

not applicable

**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**

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**EU regulatory information**

2010/75/EU (VOC): &lt; 5 %

**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): 14,15,16.

**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.)*