

MATERIAL SAFETY DATA SHEET



According to 1907/2006/EC, Article 31

Product name **EcoComp UV-L Resin**

Product code UV-L

Revision Date: 16.07.09 Version 1.05

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Commercial Product Name **EcoComp UV-L Resin**

Use of the substance/preparation Photosensitive Resin

Manufacturer, importer, supplier SUSTAINABLE COMPOSITES Ltd
New Portreath Road,
REDRUTH
CORNWALL, TR16 4QL Telephone: + (44) 01209 843484
UK Telefax: + (44) 01209 843488

General Emergency Telephone Number Poison – Antidote Centre +49 551 19240

2. HAZARDS IDENTIFICATION

- Hazard description:



Xi Irritant

- Information concerning particular hazards for human and environment:**
This product has to be labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
R 43 May cause sensitization by skin contact.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Classification:** R43-R52/53
- Additional information:**
Contains antimony salts. Repeated contact may cause allergic reactions in very susceptible persons.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical characterization**
- Description:** Modified linseed oil with additives
- Dangerous components:**

	Photoinitiator	Xi, N; R 36-4350/53	≤ 2.5%
CAS: 108-32-7 EINECS: 203-572-1	Propylene carbonate	Xi ; R 36	≤ 2.5%

- Additional information:** For the wording of the listed risk phrases refer to section 16.

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4. FIRST AID MEASURES

- **After Inhalation:**
Supply fresh air and to be sure call a doctor.
In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Consult a doctor if reaction occurs.
- **After swallowing:**
If symptoms persist call a doctor.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing agents:**
Use dry chemical, CO₂, water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** water with full jet
- **Protective equipment:** Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. HANDLING AND STORAGE

- **Handling :**
- **Information for safe handling:**
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Maximum storage temperature:** 40°C
- **Minimum storage temperature:** 10°C

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
Protection of hands: Protective gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:** Recommended thickness of the material: ≥ 0.3 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:** Value for the permeation: Level ≥ 6
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:**
Butyl rubber, BR
Nitrile rubber, NBR
- **As protection from splashes gloves made of the following materials are suitable:**
Nitrile rubber, NBR
- **Eye protection:** Goggles recommended during use and refilling containers.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **General information**

Form	liquid
Colour	light brown
Odour	slight
- **Change in condition**

Melting point/range	approx. 0°C
Boiling point/range	not applicable
- **Flash point** > 140°C
- **ignition temperature** > 300°C
- **Self-igniting** this product is not selfigniting.
- **Danger of explosions** This product does not present an explosion hazard.
- **Vapour pressure @ 20°C** 0 hPa
- **Density @ 20°C** 1,03 g/cm³ (20°C)
- **Solubility in / miscibility with water:** not miscible or difficult to mix

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section 9 cont.

- **Viscosity** approx. 1500 mPa·s (20°C)
- **Solvent content:**
 - Organic solvents:** 1.5%
 - Organic solvents:** 1.5%
- **VOC (EC)** 0.00%

10. STABILITY AND REACTIVITY

- **Thermal decomposition /Conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Material to be avoided:**
Do not store together with reducing agents, heavy metal compounds, acids and alkalis.
- **Dangerous reactions** Contact with strong acids releases hydrogen fluoride.
- **Dangerous decomposition products:** Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effects known.
- **on the eye:** No irritant effects known.
- **Sensitization:** Sensitization possible through skin contact. (OECD 429)
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

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13. DISPOSAL CONSIDERATIONS

- **Product:**
 - **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 - **Uncleaned packaging:**
 - **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
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14. TRANSPORT INFORMATION

- **UN number: not applicable**
 - **Maritime transport IMDG:**
 - **Marine pollutant: No**
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15. REGULATORY INFORMATION

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
 Xi Irritant
- **Hazard determining components of labeling:** Photoinitiator
- **R-phrase (s)**
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **S-phrase(s)**
S24/25 Avoid contact with skin and eyes.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This data sheet contains changes from the previous version in section (s) 2/3/8/15