

# Safety Data Sheet



According to Regulation (EC) No. 1907/2006

Product Name: EVGNIL UV/A2

Product No.: EVGNIL UV/A2

Version: 1.1/EN Revision Date: April-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifiers

Product name : EVGNIL UV/A2  
Product No. : EVGNIL UV/A2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : R&D and industrial uses.

### 1.3. Details of the supplier of the safety data sheet

Company : EV Group GmbH  
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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable Liquids (category 3); H226: Flammable liquid and vapour.

Serious eye damage (category 1); H318: Causes serious eye damage.

Specific target organ toxicity – single exposure (category 3), Respiratory System; H335: May cause respiratory irritation.

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## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed  
P240 Ground / bond container and receiving equipment  
P241 Use explosion proof electrical / ventilating / lighting equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves/ eye protection/ face protection.  
P304-P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403 + P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard Statements None

## 2.3. Other hazards

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Chemical characterization

Mixture

### 3.2. Hazardous components

CAS-No.	Chemical name	Quantity
	Classification	

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687-47-8	Ethyl-(L)-lactate	78 – 97 %
	Flam. Liq.3, H226; Eye Dam. 1, H318; STOT SE3, H335	
	Polymeric organosilicon compound	1 - 20 %
	Inert liquid, generally considered to be non toxic.	
	Photoinitiator	< 2 %
	Not classified as hazardous substance according to the CLP regulation	

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Immediately remove any clothing soiled by the product.  
Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult physician.  
Avoid contact with UV- and sunlight.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician immediately.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, silicon oxides, oxides of phosphorous.

### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

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## 5.4. Further information

Use water spray to cool unopened containers.

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3. Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4. Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Provide appropriate exhaust ventilation at places where dust is formed.

Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

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

Protect from light. Protect from heat and direct sunlight.

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end uses

No data available.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

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## Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this mixture. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## Body protection

Complete suit protecting against chemicals. Wear flame retardant, antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) Appearance	Form: clear, liquid Colour: clear to slightly yellow
b) Odour	ester-like
c) Odour threshold	no data available
d) pH (20°C)	no data available
e) Melting point/freezing point	-26 °C (for Ethyl-(L)-Lactate)
f) Initial boiling point	154°C (for Ethyl-(L)-Lactate)
g) Flash point	46°C – closed cup (for Ethyl-(L)-Lactate)
h) Evaporation rate	no data available
i) Flammability (solid/gas)	no data available
j) Vapour pressure	2,1 hPa at 20°C (for Ethyl-(L)-Lactate)
k) Vapour density	4,08 – (air = 1.0) (for Ethyl-(L)-Lactate)

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l) Relative density	1,0 – 1,2 g cm <sup>-3</sup> (at 20-25°C)
m) Water solubility	no data available
n) Partition coefficient: n-octanol/water	no data available
o) Autoignition temperature	430°C at 1.016,3 – 1.024,1 hPa (for Ethyl-(L)-Lactate)
p) Decomposition temperature	no data available
q) Viscosity	no data available

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No data available.

### 10.3. Possibility of hazardous reactions

Upon exposure to light a non-hazardous polymerization reaction occurs.

### 10.4. Conditions to avoid

Protect from sunlight. Heat, flames and sparks. May polymerize on exposure to light.

### 10.5. Incompatible materials

Strong oxidizing agents, strong acids and strong bases.

### 10.6. Hazardous decomposition products

No data available.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Calculated data based on components in mixture: ATE (oral) > 2.000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components. Unknown toxicity for up to 20 % of the mixture.

LC50 Inhalation – rat – 4 h: > 5.4 mg/l for Ethyl-(L)-Lactate.

#### Skin corrosion/irritation

No data available for the mixture.

Data for (-)-Ethyl-L-Lactate: Skin - rabbit

Result: No skin irritation - 4 h

#### Serious eye damage/eye irritation

No data available for the mixture.

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Data for (-)-Ethyl-L-Lactate: no data available

## Respiratory or skin sensitization

No data available for the mixture.

Data for (-)-Ethyl-L-Lactate: in vivo assay - mouse  
Result: Does not cause skin sensitization

## Germ cell mutagenicity

No data available.

## Carcinogenicity

IARC: No component of this present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

No data available.

## Specific target organ toxicity – single exposure

Inhalation - May cause respiratory irritation. – Respiratory Tract

## Specific target organ toxicity – Repeated exposure

No data available.

## Aspiration hazard

No data available.

## Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	Causes eye burns.

## Additional information

To the best of our knowledge the toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

The product is not classified as Aquatic Chronic or Aquatic Acute (Calculation based on components in mixture according to regulation EC 1272/2008).

The product has not been tested. The statement has been derived from the properties of the individual components.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

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No data available.

## 12.5. Results of PBT and vPvB assessment

No data available.

## 12.6. Other adverse effects

No data available.

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## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with afterburner and scrubber but exert extra care in igniting as this material is flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated Packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### 14.1. UN number

ADR/RID: 1866

IMDG: 1866

IATA: 1866

### 14.2. UN proper shipping name

ADR/RID: Resin solution, flammable

IMDG: Resin solution, flammable

IATA: Resin solution, flammable

### 14.3. Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4. Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5. Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6. Special precautions for user

No data available.

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## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2. Chemical safety assessment

No data available.



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## 16. OTHER INFORMATION

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