

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.10.2015



Revision: 02.10.2015

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

- **1.1 Product identifier**
- **Trade name** Evergreen slow - Komponente A
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Epoxy coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** **Spray-Liner GmbH**  
Zum Scheider Feld 10  
51467 Bergisch Gladbach - Germany  
T +49 (0) 2202 – 96 96 60  
F +49 (0) 2202 – 96 96 69
  
- **Informing department:** Product safety department.  
msds@spray-liner.eu
- **1.4 Emergency telephone number:** T: + 49 (0) 163 161 0 160

### SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS07
GHS09
- **Signal word** Warning

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 1)

- **Hazard-determining components of labelling:** Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues  
epoxide derivates  
1,6-hexene-diglycidylether  
[[2-ethylhexyl]oxy]methyl]oxirane
- **Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements** 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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- **Additional information:** Contains epoxy constituents. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture consisting of the following components.

#### · **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26-0002	Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues	25-50%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 9003-36-5 NLP: 500-006-8	epoxide derivates	10-<25%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 16096-31-4 EINECS: 240-260-4	1,6-hexene-diglycidylether	1-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 2461-15-6 EINECS: 219-553-6	[[2-ethylhexyl]oxy]methyl]oxirane	1-<1.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	Polyacrylat	0.1-<0.5%
	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**
**Additional information**

(Contd. of page 2)

For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

- **After inhalation** Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.

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

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media**
**Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**5.3 Advice for firefighters**
**Protective equipment:**

No special measures required.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

**6.2 Environmental precautions:**

Inform respective authorities in case product reaches water or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

Trade name Evergreen slow - Komponente A

See Section 13 for information on disposal.

(Contd. of page 3)

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

#### · 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

**7727-43-7 barium sulphate, natural (10-<25%)**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*inhalable dust \*\*respirable dust

#### · DNELs

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

Oral	DNEL	0.75 mg/kg bw/Tag (General) (Kurzfristig und Langfristig Systemisch)
Dermal	DNEL	3.6 mg/kg bw/day (General) (Kurzfristig und Langfristig Systemisch)
		8.3 mg/kg bw/day (Workers) (Kurzfristig und Langfristig Systemisch)
Inhalative	DNEL	0.75 mg/m <sup>3</sup> (General) (Kurzfristig und Langfristig Systemisch)
		12.3 mg/m <sup>3</sup> (Workers) (Kurzfristig und Langfristig Systemisch)

#### · PNECs

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

PNEC	10 mg/l (Sewage Treatment Plant)
	3 µg/l (Fresh water)
	0.3 µg/l (Marine)
	0.5 mg/kg dwt (Marine water sediment)
	0.05 mg/kg dwt (Sediment)
	0.5 mg/kg dwt (Fresh water sediment)

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 4)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** *Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.*
- **Protection of hands:** *Protective gloves.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.*
- **Material of gloves** *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** *The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Tightly sealed safety glasses.*
- **Body protection:** *Protective work clothing.*

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** *Fluid*
  - Colour:** *Green*
  - Smell:** *Odourless*
  - Odour threshold:** *Not determined.*
- **pH-value at 20 °C:** *7*
- **Change in condition**
  - Melting point/Melting range:** *Not determined*
  - Boiling point/Boiling range:** *201 °C*
- **Flash point:** *> 100 °C*
- **Inflammability (solid, gaseous)** *Not applicable.*
- **Ignition temperature:** *184 °C*
- **Decomposition temperature:** *Not determined.*

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

Trade name Evergreen slow - Komponente A

(Contd. of page 5)

· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive.
· <b>Critical values for explosion:</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Steam pressure at 20 °C:</b>	0.1 hPa
· <b>Density at 20 °C</b>	1.37 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
dynamic:	Not determined.
kinematic:	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.
· <b>10.6 Hazardous decomposition products:</b>	No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

Oral	LD50	30000 mg/kg (Ratte)
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Dermal	LD50	> 2000 mg/kg (kan)
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**9003-36-5 epoxide derivates**

Oral	LD50	23800 mg/kg (Ratte)
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(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 6)

Dermal	LD50	> 2000 mg/kg (kan)
<b>16096-31-4 1,6-hexene-diglycidylether</b>		
Oral	LD50	8500 mg/kg (Ratte)
Dermal	LD50	> 4900 mg/kg (Ratte)
<b>2461-15-6 [[(2-ethylhexyl)oxy]methyl]oxirane</b>		
Oral	LD50	> 7500 mg/kg (Ratte)
Dermal	LD50	> 3600 mg/kg (kan)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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(Contd. on page 8)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 7)

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· **Recommendation**                      *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*

#### · Uncleaned packagings:

· **Recommendation:**                      *Disposal must be made according to official regulations.*

### SECTION 14: Transport information

#### · 14.1 UN-Number

· **ADR, IMDG, IATA**                                      UN3082

#### · 14.2 UN proper shipping name

· **ADR**                                      3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivatives)

· **IMDG**                                      ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivatives), MARINE POLLUTANT

· **IATA**                                      ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivatives)

#### · 14.3 Transport hazard class(es)

· **ADR**

· **Class**                                      9 (M6) Miscellaneous dangerous substances and articles.

· **Label**                                      9

#### · IMDG, IATA

· **Class**                                      9 Miscellaneous dangerous substances and articles.

· **Label**                                      9

#### · 14.4 Packing group

· **ADR, IMDG, IATA**                                      III

#### · 14.5 Environmental hazards:

· **Marine pollutant:**                                      *Product contains environmentally hazardous substances: Polyacrylat, epoxide derivatives*

· **Special marking (ADR):**                                      *Yes*

· **Special marking (IATA):**                                      *Symbol (fish and tree)*

#### · 14.6 Special precautions for user

· **Kemler Number:**                                      *Warning: Miscellaneous dangerous substances and articles.*

· **EMS Number:**                                      90

· **EMS Number:**                                      F-A,S-F

(Contd. on page 9)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 8)

· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>		Not applicable.
· <b>Transport/Additional information:</b>		
· <b>ADR</b>		
· <b>Limited quantities (LQ)</b>	5L	
· <b>Excepted quantities (EQ)</b>	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
· <b>Transport category</b>	3	
· <b>Tunnel restriction code</b>	E	
· <b>IMDG</b>		
· <b>Limited quantities (LQ)</b>	5L	
· <b>Excepted quantities (EQ)</b>	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
· <b>UN "Model Regulation":</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivatives), 9, III	

### SECTION 15: Regulatory information

· <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	No further relevant information available.
· <b>15.2 Chemical safety assessment:</b>	A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· <b>Relevant phrases</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye 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. H412 Harmful to aquatic life with long lasting effects.
· <b>Department issuing data specification sheet:</b>	Environment protection department.
· <b>Contact:</b>	Mr. D. Winkelhausen

(Contd. on page 10)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.10.2015

Revision: 02.10.2015

**Trade name Evergreen slow - Komponente A**

(Contd. of page 9)

- **Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3