

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 B
- **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 Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Aquatic Chronic 3 H412 Harmful 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**

GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:** Polyamine-Addukt

(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 B

(Contd. of page 1)

· Hazard statements

2-piperazin-1-ylethylamine
1,3-Cyclohexanedimethanamine
3-aminomethyl-3,5,5-trimethylcyclohexylamine
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

· 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:

	Polyamine-Addukt	10-<25%
	Eye Dam. 1, H318; Skin Irrit. 2, H315	
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine	1-<10%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine	1-<10%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol	0.1-<10%
	Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1-<10%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

(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 B

(Contd. of page 2)

CAS: 38640-62-9 EINECS: 254-052-6 Reg.nr.: 01-2119565150-48-0000	Diisopropylnaphthalin-Isomere Asp. Tox. 1, H304; Aquatic Chronic 2, H411	0.1-<10%
CAS: 69-72-7 EINECS: 200-712-3	Salicylic acid Eye Dam. 1, H318; Acute Tox. 4, H302	1-<3%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

Instantly remove any clothing soiled by the product.

· 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. Then consult a doctor.

· After swallowing

Drink copious amounts of water and provide fresh air. Instantly call for 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

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· 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

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

(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 B

(Contd. of page 3)

· 6.3 Methods and material for containment and cleaning up:

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of contaminated material as waste according to item 13.
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.
See Section 13 for information on disposal.

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: Do not store together with acids.

· 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/m³
*inhalable dust **respirable dust

· Additional information:

The lists that were valid during the compilation were used as basis.

(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 B

(Contd. of page 4)

- **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.
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

- **Material of gloves**

After use of gloves apply skin-cleaning agents and skin cosmetics.
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:	White
Smell:	Amine-like
Odour threshold:	Not determined.

- **pH-value:** <10

- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

- **Flash point:** >100 °C

- **Inflammability (solid, gaseous)** Not applicable.

- **Ignition temperature:**

Decomposition temperature:	Not determined.
-----------------------------------	-----------------

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive.

(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 B

(Contd. of page 5)

· Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
· Steam pressure:	
Not determined.	
· Density at 20 °C	
1.37 g/cm ³	
· Relative density	
Not determined.	
· Vapour density	
Not determined.	
· Evaporation rate	
Not determined.	
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	
Not determined.	
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· 9.2 Other information	
No further relevant information available.	

SECTION 10: Stability and reactivity

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

140-31-8 2-piperazin-1-ylethylamine

Oral	LD50	2140 mg/kg (Ratte)
------	------	--------------------

Dermal	LD50	866 mg/kg (Kaninchen)
--------	------	-----------------------

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	250 mg/kg (Ratte)
------	------	-------------------

38640-62-9 Diisopropyl-naphthalin-Isomere

Oral	LD50	> 3900 mg/kg (Ratte)
------	------	----------------------

(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 B

(Contd. of page 6)

Dermal LD50 > 4500 mg/kg (Ratte)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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.

GB

(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 B

(Contd. of page 7)

SECTION 14: Transport information

· 14.1 UN-Number	UN2735
· ADR, IMDG, IATA	
· 14.2 UN proper shipping name	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N-A MIN O E T H Y L P I P E R A Z I N E , ISOPHORONEDIAMINE)
· ADR	
· IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (N-A MIN O E T H Y L P I P E R A Z I N E , ISOPHORONEDIAMINE)
· 14.3 Transport hazard class(es)	
· ADR	
· Class	8 (C7) Corrosive substances.
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Kemler Number:	80
· EMS Number:	F-A,S-B
· Segregation groups	Alkalis
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L

(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 B

(Contd. of page 8)

· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (N - A M I N O E T H Y L P I P E R A Z I N E , ISOPHORONEDIAMINE), 8, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.
- **15.2 Chemical safety assessment:** 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.

- **Relevant phrases**
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - 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.
 - H332 Harmful if inhaled.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing data specification sheet:** Environment protection department.
- **Contact:** Mr. D. Winkelhausen
- **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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

(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 B

(Contd. of page 9)

*Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Asp. Tox. 1: Aspiration hazard, 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*