

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

- 1.1 Product identifier
- Trade name: Epifanes Epoxy Primer component B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- Application of the substance / the mixture  
curing component of a two-component primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
Suter Kunststoffe AG  
Aefligenstrasse 3  
3312 Fraubrunnen  
Switzerland  
Tel +41 (0)31 763 60 60  
Fax +41 (0)31 763 60 61  
email: info@swiss-composite.ch
- Further information obtainable from: environment protection department
- 1.4 Emergency telephone number:  
ToxInfo Suisse, Tel.: 145  
International: Tel. +41 (0)44 251 51 51

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3    H226    Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1    H318    Causes serious eye damage.



GHS07

Skin Irrit. 2    H315    Causes skin irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21:    Harmful by inhalation and in contact with skin.



Xi; Irritant

R38-41:    Irritating to skin. Risk of serious damage to eyes.

R10:    Flammable.

- Information concerning particular hazards for human and environment:  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- Classification system:  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 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



GHS02



GHS05

- Signal word Danger
- Hazard-determining components of labelling:  
Polyaminoamide  
butan-1-ol
- Hazard statements  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.
- Precautionary statements  
P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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 characterization: Mixtures
- Description:  
Resin mixture  
Solvent mixture with additives
- Dangerous components:

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	Polyaminoamide  Xi R41  Flam. Liq. 3, H226  Eye Dam. 1, H318	50-100%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene  Xn R20/21  Xi R38 R10  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol  Xn R22  Xi R37/38-41 R10-67  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%

• 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:  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately 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: If symptoms persist 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:  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture  
No further relevant information available.

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- 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective clothing.  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose 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 disposal information.

**SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:  
Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.
- 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 facilities:  
No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:  
1330-20-7 xylene

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Inhalative	Tijd gewogen gemiddelde over 15 min/Exposure time	442 mg/m <sup>3</sup> (Algemene bevolking/ General population)
	Tijd gewogen gemiddelde over 8 uur / Exposure time	210 mg/m <sup>3</sup> (Algemene bevolking/ General population)

1330-20-7 xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm  
Sk

## • DNELs

1330-20-7 xylene

Dermal	Long-term - local effects, worker	180 --- (Werker/Worker)
Inhalative	Acute - systemic effects, worker	289 mg/m <sup>3</sup> (Werker/Worker)
	Acute-local effects, worker	289 mg/m <sup>3</sup> (Werker/Worker)
	Long-term - local effects, worker	77 mg/m <sup>3</sup> (Werker/Worker)

## • PNECs

1330-20-7 xylene

Aquatic compartment - freshwater	0.327 mg/L (not specified)
Aquatic compartment - marine water	0.327 mg/L (not specified)
Aquatic compartment - sediment in freshwater	12.46 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	12.46 mg/kg sed dw (not specified)
Aquatic compartment - water, intermittent releases	0.327 mg/L (not specified)
Sewage treatment plant	6.58 mg/L (not specified)
Terrestrial compartment - soil	2.31 mg/kg dw (not specified)

## • Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

## • Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• 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 goggles

**SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and chemical properties

• General Information

• Appearance:

Form: Fluid

Colour: According to product specification

• Odour: Characteristic

• Odour threshold: Not determined.

• pH-value at 20 °C: 10

• Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 120 °C

• Flash point: 27 °C

• Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 340 °C

• Decomposition temperature: Not determined.

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· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	1.1 Vol % 7.0 Vol %
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	0.94 g/cm <sup>3</sup>
· 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 at 20 °C: Kinematic:	1400 mPas Not determined.
· Solvent content: Organic solvents: VOC content:	42.0 % 42.0 % VOC content: 394.8 g/l / 3.29 lb/gl
Solids content:	56.0 % (VB% 1h150 C)
· 9.2 Other information	No further relevant information available.

**\* SECTION 10: Stability and reactivity**

- 10.1 Reactivity
- 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 relevant for classification:		
1330-20-7 xylene		
Oral	LD50	4300 mg/kg bw (rat)
Dermal	LD50	2000 mg/kg bw (rabbit)

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71-36-3 butan-1-ol

Oral	LD50	790 mg/kg bw (rat)
Dermal	LD50	3400 mg/kg bw (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- 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:  
Harmful  
Irritant

## SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity:
- |                  |   |
|------------------|---|
| 1330-20-7 xylene |   |
| EC50             | 1 mg/l (daphnia magna) (48 uur/hour)                    |
| LC50             | 13.5-2.6 mg/l (Fish Acute Toxicity Study) (96 uur/hour) |
- 12.2 Persistence and degradability No further relevant information available.
  - 12.3 Bioaccumulative potential
- |                  |                   |
|------------------|-------------------|
| 1330-20-7 xylene |                   |
| Log Kow          | 3 (not specified) |
- 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
  - General notes:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
  - 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 together with household garbage. Do not allow product to reach sewage system.
  - European waste catalogue
- |           |   |
|-----------|---|
| 08 00 00  | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00  | wastes from MFSU and removal of paint and varnish   |
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances   |

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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- 14.1 UN-Number  
· ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name  
· ADR 1263 PAINT RELATED MATERIAL (not viscous)  
· IMDG, IATA PAINT RELATED MATERIAL
- 14.3 Transport hazard class(es)  
· ADR  
· Class 3 (F1) Flammable liquids.  
· IMDG, IATA  
  
· Class 3 Flammable liquids.  
· Label 3
- 14.4 Packing group  
· ADR, IMDG, IATA III
- 14.5 Environmental hazards:  
· Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.  
· Danger code (Kemler): 30  
· EMS Number: F-E, E-S
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 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 D/E  
· IMDG  
· 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

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- UN "Model Regulation": UN1263, PAINT RELATED MATERIAL (not viscous), 3, III

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	25-50
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

**SECTION 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 phrases
  - H226 Flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - R10 Flammable.
  - R20/21 Harmful by inhalation and in contact with skin.
  - R22 Harmful if swallowed.
  - R37/38 Irritating to respiratory system and skin.
  - R38 Irritating to skin.
  - R41 Risk of serious damage to eyes.
  - R67 Vapours may cause drowsiness and dizziness.
- Abbreviations and acronyms:
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organization
  - 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 Harmonized 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Flam. Liq. 3: Flammable liquids, Hazard Category 3
  - Acute Tox. 4: Acute toxicity, Hazard Category 4

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· \* Data compared to the previous version altered.

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