

# Safety data sheet

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

Printing date 05.12.2013

Version number 2

Revision: 05.12.2013

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

#### Product identifier

**Trade name:** Bremssattellack, alle Farben

**Article number:** 8104../12300...

**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the mixture** 2K epoxy coating

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

##### Manufacturer/Supplier:

FOLIATEC Böhm GmbH & Co. Vertriebs KG

Neumeyerstraße 70

D-90411 Nürnberg

#### Further information obtainable from:

Abteilung Produkttechnik

techsupport@foliatec.de

**Emergency telephone number:** +49 - 91 19 75 44 - 0

### 2 Hazards identification

#### 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

Acute Tox. 4 H332 Harmful if inhaled.

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

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

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.

#### Classification system:

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

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**Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**GHS label elements**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS02   GHS05   GHS07

**Signal word** *Danger***Hazard-determining components of labelling:**

xylene

Isobutanol

Siliciumdioxid

**Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/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 or doctor/physician.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Contains epoxy constituents. May produce an allergic reaction.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|  |  |  |
|--|--|--|
|  | Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht 700 - 1100 |  |
|  | Xi R36/38; Xi R43  |  |
|  | Skin Irrit. 2, H315  |  |

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|                                     |   |        |
|-------------------------------------|---|--------|
| CAS: 1330-20-7<br>EINECS: 215-535-7 | xylene<br>Xn R20/21; Xi R38<br>R10<br>Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 | 25-75% |
| CAS: 78-83-1<br>EINECS: 201-148-0   | butanol<br>Xi R37/38-41<br>R10-67<br>Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336  | <15%   |
| CAS: 123-86-4<br>EINECS: 204-658-1  | n-butyl acetate<br>R10-66-67<br>Flam. Liq. 3, H226; STOT SE 3, H336   | <5%    |
| CAS: 122-51-0<br>EINECS: 204-550-4  | Triethylorthoformiat<br>R10<br>Flam. Liq. 3, H226   | <1%    |

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

### 4 First aid measures

#### 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 and to be sure call for 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.

##### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Call for a doctor immediately, present MSDs

##### Information for doctor:

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### 5 Firefighting measures

#### Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**Special hazards arising from the substance or mixture** No further relevant information available.

#### Advice for firefighters

##### Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

**Additional information** Contaminated extinguishing water according to official regulations.

### 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up:

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

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Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

No special measures required.

**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.

## 7 Handling and storage

**Handling:****Precautions for safe handling** Prevent formation of aerosols.**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep container tightly sealed.**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.**Control parameters****Ingredients with limit values that require monitoring at the workplace:****7727-43-7 Bariumsulfat**

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

**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

**78-83-1 butanol**

WEL Short-term value: 231 mg/m<sup>3</sup>, 75 ppm  
 Long-term value: 154 mg/m<sup>3</sup>, 50 ppm

**123-86-4 n-butyl acetate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
 Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**Additional information:** The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**Respiratory protection:** Not required.**Protection of hands:**

Protective gloves

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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

## 9 Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:**

|                |                                  |
|----------------|----------------------------------|
| <b>Form:</b>   | Fluid                            |
| <b>Colour:</b> | Different according to colouring |
| <b>Odour:</b>  | Characteristic                   |

**Change in condition**

**Boiling point/Boiling range:** 137 °C

**Flash point:** > 23 °C

**Ignition temperature:** 500 °C

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 1.1 Vol % |
| <b>Upper:</b> | 7.0 Vol % |

**Vapour pressure at 20 °C:** 6.7 hPa

**Density at 20 °C:** 1.3 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Viscosity:**

**Dynamic at 20 °C:** 3000 mPas

**VOC (EC)** < 500g/l

## 10 Stability and reactivity

**Reactivity****Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicological information

#### Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values relevant for classification:

##### 1330-20-7 xylene

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 4300 mg/kg (rat)    |
| Dermal | LD50 | 2000 mg/kg (rabbit) |

##### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** Sensitization possible through skin contact.

**Experience with humans:** no toxicological tests carried out with the preparation

##### 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

### 12 Ecological information

#### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

#### Behaviour in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**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.

### 13 Disposal considerations

#### Waste treatment methods

##### Recommendation

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

##### European waste catalogue

|           |   |
|-----------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances |
| 15 01 10* | packaging containing residues of or contaminated by dangerous substances          |

##### Uncleaned packaging:

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

### 14 Transport information

#### UN-Number

ADR, IMDG, IATA

UN1263

#### UN proper shipping name

ADR

1263 PAINT

IMDG, IATA

PAINT

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**Transport hazard class(es)****ADR**

**Class** 3 (F1) Flammable liquids.  
**Label** 3

**IMDG, IATA**

**Class** 3 Flammable liquids.  
**Label** 3

**Packing group**

**ADR, IMDG, IATA** III

**Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):**

30

**EMS Number:**

F-E,S-D

**Transport in bulk according to Annex II of  
 MARPOL 73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:****ADR**

**Limited quantities (LQ)** 5L

**Transport category** 3

**Tunnel restriction code** D/E

**UN "Model Regulation":** UN1263, PAINT, 3, III

### 15 Regulatory information

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

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.

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*R36/38 Irritating to eyes and skin.**R37/38 Irritating to respiratory system and skin.**R38 Irritating to skin.**R41 Risk of serious damage to eyes.**R43 May cause sensitisation by skin contact.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.***Department issuing MSDS:** *Abteilung Produkttechnik***Contact:** *Hr. Rupprecht***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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent***\* Data compared to the previous version altered.**

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