

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Epoxypulver EP 5835 (SORTE 5835)  
Revision date : 05.01.2012  
Date of print : 31.01.2013

Version (Revision) : 2.1.0 (2.0.0)

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

### 1.1 Product identifier

Epoxypulver EP 5835 (SORTE 5835)

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

Powder coating. Intended purpose see technical data sheet.

#### Relevant identified uses

##### Product categories

PC9 - Coatings and paints, fillers, putties, thinners

#### Remark

The product is intended for professional use.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co. KG, Industrielack  
www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/city : D-59423 Unna

Telephone : +49 (0)2303 8805-0

Telefax : +49 (0)2303 8805-119

### 1.4 Emergency Telephone Number

Giftnotruf Berlin (poisons centre), consultation in german and english  
Telephone: +49 (0)30 30686 790.

## 2. Hazards identification

This product is dangerous concerning EC-guideline 1999/45/EC.

### 2.1 Classification of the substance or mixture

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 52/53

### 2.2 Label elements

#### Labelling (67/548/EEC or 1999/45/EC)

##### R-phrases

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### S-phrases

61

Avoid release to the environment. Refer to special instructions / safety data sheet.

35

This material and its container must be disposed of in a safe way.

38

In case of insufficient ventilation, wear suitable respiratory equipment.

22

Do not breathe dust.

### 2.3 Other hazards

None

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Phenylimidazolin Salt ; EC No : 259-226-5; CAS No. : 54553-91-2

Weight fraction : 2,5 - 5 %

Classification 67/548/EEC : N ; R51/53 Xn ; R22

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Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Aquatic Chronic 2 ; H411

## Additional information

Full text of R-, H- and EUH-phrases: see section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do not induce vomiting. No direct artificial respiration to be given by first aider.

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

No information available.

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

None

## 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray. The fire fighting for manuell and self-acting powder coating systems conformable BGI 764 the extingshent agent CO<sub>2</sub> can be used by movable tool and fight fire extinguishing system. For using other extingshent agent than CO<sub>2</sub> the effectiveness must be proved.

#### Unsuitable extinguishing media

High power water jet. Inert gas with high pressure.

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

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Pyrolysis products, toxic.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Use suitable breathing apparatus.

### 5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

## 6. Accidental release measures

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

Remove all sources of ignition. See protective measures under point 7 and 8. Avoid generation of dust. Do not inhale product dusts.

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## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

### For cleaning up

Contain and collect spillage with a vacuum cleaner or by wet brushing and place in container for disposal according to local regulations. (See section 13). (Vacuum cleaner construction B1, appropriate to suck up combustible dust). Do not use a dry brush as dust clouds can be created.

## 6.4 Reference to other sections

None

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Avoid: Generation/formation of dust. Dust deposits. Inhalation of dust/particles. Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Fire prevent measures

Dust can form an explosive mixture with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

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

#### Requirements for storage rooms and vessels

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Hints on storage assembly

Storage class : 13

#### Do not store together with:

Strong acid. Strong alkali. Oxidising agent. Food and feedingstuffs.

#### Further information on storage conditions

Do not store at temperatures above : 25 °C

Protect against : Humidity.

### 7.3 Specific end use(s)

Powder coating. Intended purpose see technical data sheet.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protective equipment

##### Eye / face protection

###### Suitable eye protection

Dust protection eye glasses.

###### Remark

Note BGR 192.

##### Skin protection

###### Hand protection

Suitable gloves type : Disposable gloves. Gloves with long cuffs

Required properties : dust-tight.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note BGR 195. Note TRGS 401.

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## Body protection

Personel should wear protective clothings and all parts of the body should be washed after contact. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at neck and wrists through contact with the powder is avoided.

**Recommended material** : Natural fibres (e.g. cotton). Heat-resistant synthetic fibres.

**Remark** : Note BGR 189. Note TRGS 401.

## Respiratory protection

Respiratory protection necessary at: insufficient exhaust Breathing filter (particle): P2.

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

## General health and safety measures

Used working clothes should not be worn outside the work area.

## Occupational exposure controls

### Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Powder

**Colour** : According to product identification.

#### Odour

Poor, characteristic.

#### Safety relevant basis data

<b>Melting point/melting range:</b>	>	50 °C
<b>Boiling temperature/boiling range:</b> ( 1013 hPa )		not applicable
<b>Decomposition temperature:</b>	>	250 °C
<b>Flash point:</b>		not applicable
<b>Ignition temperature:</b>	>	450 °C
<b>Lower explosion limit:</b>	ca.	50 - 70 g/m <sup>3</sup>
<b>Upper explosion limit:</b>		No data available
<b>Vapour pressure:</b> ( 50 °C )		not applicable
<b>Density:</b> ( 20 °C )		1,7 - 1,8 g/cm <sup>3</sup>
<b>Water solubility:</b> ( 20 °C )		insoluble
<b>pH value:</b>		No data available
<b>Viscosity :</b> ( 23 °C )		not applicable
<b>Solid content:</b>		100 Wt %

### 9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## 10. Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

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No information available.

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

No information available.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Irritant and corrosive effects

##### Primary irritation to the skin

##### Practical experience/human evidence

Powder coatings can cause localised skin irritation in folds of the skin or in contact with tight clothing.

### 11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) algae toxicity

Parameter : EC50 ( Phenylimidazolin Salt ; CAS No. : 54553-91-2 )

Species : Fish

Effective dose : > 1000 mg/l

Exposure time : 96 h

Parameter : EC50 ( Phenylimidazolin Salt ; CAS No. : 54553-91-2 )

Species : Daphnia

Effective dose : 125 mg/l

Exposure time : 48 h

### 12.2 Persistence and degradability

#### Abiotic degradation

Mechanical separation in a suitable sewage plant is possible.

#### Biodegradation

In accordance with the required stability the product is poorly biodegradable.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Further ecological information

#### Additional information

Do not allow uncontrolled discharge of product into the environment.

## 13. Disposal considerations

### 13.1 Waste treatment methods

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The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose according to legislation.

## Product/Packaging disposal

### Waste codes / waste designations according to EWC / AVV

#### Waste code packaging

EWC-Code: 08 02 01.

#### Waste treatment options

##### Appropriate disposal / Package

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

## 13.2 Additional information

Note sections 7 and 8.

## 14. Transport information

### 14.1 UN number

No dangerous good in sense of this transport regulation.

### 14.2 UN proper shipping name

No dangerous good in sense of this transport regulation.

### 14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation.

### 14.4 Packing group

No dangerous good in sense of this transport regulation.

### 14.5 Environmental hazards

No dangerous good in sense of this transport regulation.

### 14.6 Special precautions for user

None

## 15. Regulatory information

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

#### EU legislation

Note TRGS 001. Note TRGS 400.

#### Other regulations (EU)

##### Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National regulations

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## 16. Other information

### 16.1 Indication of changes

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

### 16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the german employers liability

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insurance association. VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters. VCI: German chemical industry association. EWC: European Waste Catalogue.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

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

##### Hazard Statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to ...

### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

22 Harmful if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 16.6 Training advice

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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