

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** Industrie-Polyesterpulver 5904,  
pigmentiert (SORTE 5904 FARBIG)  
**Revision :** 17.06.2009      **Version :** 3.0.0  
**Print date :** 12.07.2010

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## 01. Identification of the substance/preparation and of the company/undertaking

### **Product name**

Industrie-Polyesterpulver 5904,  
pigmentiert (SORTE 5904 FARBIG)

### **Use of the substance / preparation**

Powder coating. Intended purpose see technical data sheet.

### **Manufacturer/Supplier**

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

### **Street/P.O.Box**

Otto-Hahn-Straße 14

### **Country code/Postal code/Town/City**

D-59423 Unna

### **Telephone / Telefax**

+49 (0)2303 8805-0 / +49 (0)2303 8805-119

### **Emergency information**

After the office hours:  
(Advisory board for symptom of poisoning, Berlin)  
Telephon: +49 (0)30 19240

### **Contact**

info@brillux-industrielack.de

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## 02. Hazards identification

### **Hazard designation**

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

Classification : R 52/53

### **Additional information**

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

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## 03. Composition/information on ingredients

### **Hazardous components**

Bis(2,3-epoxypropyl) terephthalate ; EC-No. : 230-565-0; CAS-No. : 7195-44-0

Percentage : 2,5 - 5 %

Classification : N ; R 51/53 R 43 Xi ; R 36/38

2-ethyl-N,N-bis(2-ethylhexyl)hexylamine ; EC-No. : 217-461-0; CAS-No. : 1860-26-0

Percentage : 0,25 - 0,5 %

Classification : N ; R 50/53

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

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## 04. First-aid measures

### **General**

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing.  
Unconsciousness: lateral position - call a physician.

### **After inhalation**

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor in case.

### **After skin contact**

Wash away with soap and water and rinse. Do not use solvents or thinners.

### **After eye contact**

Call a doctor in case. Flush plenty with water (opened eyelid)

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### After ingestion

Call a doctor and tell him the exactly substance. Keep at rest. Do not induce vomiting.

## 05. Fire-fighting measures

### Suitable extinguishing media

Alcohol resistant foam, CO2, powders, water spray. The fire fighting for manuell and self-acting powder coating systems conformable ZH 1/443, ZH 1/444 the extingshent agent CO2 can be used by movable tool and fight fire extingquishing system. For using other extingshent agent than CO2 the effectiveness must be proved.

### Unsuitable extinguishing media

Waterjet. Inert gas with high pressure.

### Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### Special protective equipment

Appropriate breathing apparatus may be required.

### Additional information

Cool endangered containers with water in case of fire.

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## 06. Accidental release measures

### Personal precautions

Remove ignition sources. Refer to protective measures listed in sections 7 and 8. Avoid dust development. Do not inhale product dusts.

### Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### Methods for cleaning up/collecting

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.

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## 07. Handling and storage

### Information for safe handling

Make sure that ventilation is adequate. Prevent the creation of flammable or explosive concentrations of dust in air and avoid dust concentration higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

### Information about protection against explosions and fires

Avoid dust development, danger of dust explosion. Take precautionary measures against static discharges. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

### Requirements to be met by storerooms and containers

Make sure that ventilation is adequate. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store the foodstuffs separately.

### Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep containers dry and cool.

**Storage class (VCI) :** 13

### Specific uses

Powder coating. Intended purpose see technical data sheet.

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## 08. Exposure controls/personal protection

### Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

Breathing filter (particle): P2

#### Hand protection

Use protective gloves. Use protective cream in case of a longer and continued contact of skin. After washing hands replace lost skin fat by fat containing skin creams.

#### Eye protection

Use safety glasses.

#### Body protection

Personnel 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.

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## 09. Physical and chemical properties

### Image

**Form :** Powder  
**Colour :** According to product identification.  
**Odour :** Poor, characteristic

### Relevant safety data

<b>Melting point / range :</b>	>	50	°C
<b>Decomposition point / range :</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>Solubility in water :</b>	( 20 °C )	insoluble	
<b>Viscosity :</b>	( 23 °C )	not applicable	
<b>Solids content :</b>		100	% b.w.

### Additional information

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

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## 10. Stability and reactivity

### Conditions to avoid

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

### Materials to avoid

None known.

### Hazardous decomposition products

None, if handled according to order. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

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## 11. Toxicological information

### Experience on practice

There are no data available on the product itself. According to information given by the manufacturer the ingredient "Bis(2,3-

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epoxypropyl) terephthalate; EC-No.: 230-565-0; CAS-No.: 7195-44-0" is not sensitising in concentrations of less than 6.8% Powder coatings can cause localised skin irritation in folds of the skin or in contact with tight clothing.

## Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

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## 12. Ecological information

### Details on elimination (persistance / degradability)

There are no data available on the product itself.

### Ecotoxicological effects

#### Aquatic toxicity

Specification : LC50 ( 2-ethyl-N,N-bis(2-ethylhexyl)hexylamine ; CAS-No. : 1860-26-0 )  
Parameters : Daphnia  
Value / dosage : gleich 0,12 mg/l  
Test-period : 48 h

### Additional ecological information

Do not empty into waters or drains.

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## 13. Disposal considerations

### Product

#### Recommendation

Can be taken to a suitable incineration centre in oberservance of local regulations.

#### Waste key

EWC-Code: 08 02 01.

### Contaminated packaging

#### Recommendation

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

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## 14. Transport information

### Land transport ADR/RID

#### Classification

Class :

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### Maritime transport IMDG/GGVSea

#### Classification

IMDG-Code :

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### Air transport ICAO-TI and IATA-DGR

#### Classification

Class :

-

#### Packaging

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## 15. Regulatory information

### Classification according to EC directives

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

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38                    In case of insufficient ventilation, wear suitable respiratory equipment.  
22                    Do not breathe dust.

#### Special designation for certain preparations

99                    Contains Bis(2,3-epoxypropyl) terephthalate ;. May produce an allergic reaction.

#### National regulatory information

##### Emission control act ("TA-Luft")

Sum organic substances class I : 0,5 - 10 %

##### Water pollution classification

Class : 1 according VwVwS

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## 16. Other information

### Restrictions on use recommended by the manufacturer

Look at the technical data sheet.

### Further information

#### Relevant changes

08. References to the thresholds

#### R-Phrases of components

36/38	Irritating to eyes and skin.
43	May cause sensitisation by skin contact.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.

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