

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** Super-NT-Polyesterpulver 5920, Transparent (5920.-.0011)  
**Revision :** 22.06.2012  
**Print date :** 22.06.2012

**Version :** 1.0.0

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

### 1.1 Product identifier

Super-NT-Polyesterpulver 5920, Transparent (5920.-.0011)

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

Powder coating. Intended purpose see technical data sheet.

### 1.3 Details of the supplier of the safety 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 :** +49 (0)2303 8805-0  
**Telefax :** +49 (0)2303 8805-119  
**Contact :** sdb@brillux-industrielack.de

### 1.4 Emergency telephone number

Outside the business hours:  
(Giftnotruf Berlin, consultation in the german and english language)  
Telephone: +49 (0)30 30686 790.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### 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

#### Regulation (EC) No 1272/2008 (GHS)

Harmful to aquatic life with long lasting effects.  
Aquatic Chronic 3 ; H412

### 2.2 Label elements

#### Directive 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.

**Special designation for certain preparations**  
99 Contains Bis(2,3-epoxypropyl) terephthalate. May produce an allergic reaction.

#### Regulation (EC) No 1272/2008 (GHS)

**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 ...

**Special rules for supplemental label elements for certain mixtures**  
EUH208 Contains Bis(2,3-epoxypropyl) terephthalate. May produce an allergic reaction.

### 2.3 Other hazards

None.

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### 2.4 Additional information

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

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

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

Percentage : 2,5 - 5 %

Classification 67/548/EEC : N ; R51/53 R43 Xi ; R36/38

Classification 1272/2008 (CLP) : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

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

## 4. First aid measures

### 4.1 Description of 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)

#### After ingestion

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

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

None known.

### 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, CO<sub>2</sub>, powders, 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

Waterjet. Inert gas with high pressure.

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

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

### 5.3 Advice for firefighters

Appropriate breathing apparatus may be required.

### 5.4 Additional information

Cool endangered containers with water in case of fire.

## 6. Accidental release measures

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

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

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and 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

Note sections 7, 8 and 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Information for safe handling

Only use in locations with adequate suction ventilation. 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.

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

#### 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 :** 13

### 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

##### Respiratory protection

Breathing filter (particle): P2. Note BGR 190. Note TRGS 402.

##### 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. Note BGR 195. Note TRGS 401.

##### Eye protection

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Use safety glasses. Note BGR 192.

### 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. Note BGR 189. Note TRGS 401.

### 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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Image

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

#### Relevant safety 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.	40 - 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 )	1,1 - 1,3 g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	not applicable
<b>Water solubility :</b>	( 20 °C )	insoluble
<b>pH value :</b>	( 20 °C / 10 g/l )	No data available
<b>Viscosity :</b>	( 20 °C )	not applicable
<b>Kinematic 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

There are no data available on the product itself.

### 10.2 Chemical stability

There are no data available on the product itself.

### 10.3 Possibility of hazardous reactions

There are no data available on the product itself.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

None known.

### 10.6 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

#### 11.1 Information on toxicological effects

There are no data available on the product itself.

#### 11.2 Experience on practice

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

#### 11.3 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).

### 12. Ecological information

#### 12.1 Toxicity

There are no data available on the product itself.

#### 12.2 Persistence and degradability

There are no data available on the product itself.

#### 12.3 Bioaccumulative potential

There are no data available on the product itself.

#### 12.4 Mobility in soil

There are no data available on the product itself.

#### 12.5 Results of PBT and vPvB assessment

There are no data available on the product itself.

#### 12.6 Other adverse effects

Do not empty into waters or drains.

### 13. Disposal considerations

Note sections 7 and 8.

#### 13.1 Waste treatment methods

##### Recommendation

Can be taken to a suitable incineration centre in observance 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.

### 14. Transport information

#### 14.1 UN number

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

#### 14.2 UN proper shipping name

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

#### 14.3 Transport hazard class(es)

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

#### 14.4 Packing group

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The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.5 Environmental hazards

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.6 Special precautions for user

None.

## 15. Regulatory information

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

#### National regulatory information

Note the Young Persons Employment Act. Note the Council Directive 92/85/EEC. Note TRGS 001. Note TRGS 400.

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

Weight fraction (Number 5.2.5. I) : 1 - 5 %

Weight fraction (Number 5.2.5. II) : < 5 %

#### Water pollution classification

Class : 2 Classification according to VwVwS

### 15.2 Chemical safety assessment

There are no data available on the product itself.

## 16. Other information

### Further information

#### Abbreviations and acronyms used:

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the German employers liability insurance association. VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters. VCI: German chemical industry association. EWC: European Waste Catalogue.

#### R-Phrases of components

36/38	Irritating to eyes and skin.
43	May cause sensitization by skin contact.
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.

#### GHS Hazard statements of components

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

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.