

Safety Data Sheet

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



Trade name : NT-Mischpulver EP/PE 5875 (SORTE 5875)
Revision date : 17.12.2014
Date of print : 17.12.2014

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

NT-Mischpulver EP/PE 5875 (SORTE 5875)

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 not 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

None

2.2 Label elements

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

Special provisions concerning the labelling of certain mixtures

99 Contains BENZENE-1,2,4-TRICARBOXYLIC ACID 1,2-ANHYDRIDE. May produce an allergic reaction.
101 Safety data sheet available for professional user on request.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; EC No : 259-224-4; CAS No. : 54553-90-1

Weight fraction : 1 - 5 %

Classification 67/548/EEC : R52/53

Classification 1272/2008 [CLP] : Aquatic Chronic 3 ; H412

BENZENE-1,2,4-TRICARBOXYLIC ACID 1,2-ANHYDRIDE ; EC No : 209-008-0; CAS No. : 552-30-7

Weight fraction : < 0,5 %

Classification 67/548/EEC : R42/43 Xi ; R41 Xi ; R37

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Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 STOT SE 3 ; H335

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 (CO₂). Water spray. The fire fighting for manuell and self-acting powder coating systems conformable BGI 764 the extingshent agent CO₂ can be used by movable tool and fight fire extinguishing system. For using other extingshent agent than CO₂ 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_x). Carbon monoxide. Carbon dioxide (CO₂). 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

Occupational exposure limit values

BENZENE-1,2,4-TRICARBOXYLIC ACID 1,2-ANHYDRIDE ; CAS No. : 552-30-7

Limit value type (country of origin) : TRGS 900 (D)

Parameter : A: alveolar fraction

Limit value : 0,04 mg/m³

Peak limitation : 1(I)

Remark : Sa

Version : 02.07.2009

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)

Exposure route : Inhalation

Limit value : 0,697 mg/m³

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Limit value type : DNEL/DMEL (Industrial) (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Exposure route : Dermal
Limit value : 0,792 mg/kg
Safety factor : 24 h

PNEC

Limit value type : PNEC (Industrial) (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Exposure route : Soil
Limit value : 10 mg/kg
Limit value type : PNEC (Industrial) (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Exposure route : Water (Including sewage plant)
Limit value : 0,009 mg/l

8.2 Exposure controls

Personal protective equipment

Eye / face protection

Suitable eye protection

Dust protection eye glasses.

Remark

Note DGUV-Rule 112-192.

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 DGUV-Rule 112-195. Note TRGS 401.

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 DGUV-Rule 112-189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: insufficient exhaust

Suitable respiratory protection apparatus

Use Breathing filter P2 (particle).

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV Rule 112-190). 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

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Physical state : Powder

Colour : According to product identification.

Odour

Poor, characteristic.

Safety relevant basis data

Melting point/melting range:	>	50	°C
Boiling temperature/boiling range: (1013 hPa)		not applicable	
Decomposition temperature:	>	250	°C
Flash point:		not applicable	
Ignition temperature:	>	450	°C
Lower explosion limit:	ca.	50 - 70	g/m ³
Upper explosion limit:		No data available	
Vapour pressure: (50 °C)		not applicable	
Density: (20 °C)		1,2 - 1,7	g/cm ³
Solvent separation test: (20 °C)		not applicable	
Water solubility: (20 °C)		insoluble	
pH value : (20 °C / 10 g/l)		No data available	
Viscosity: (20 °C)		not applicable	
Kinematic viscosity: (23 °C)		not applicable	
Solid content:		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

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

Acute effects

Acute oral toxicity

Parameter :	LD50 (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	7400 mg/kg

Acute dermal toxicity

Parameter :	LD50 (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Exposure route :	Dermal

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Species : Rat
Effective dose : > 2000 mg/kg

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) fish toxicity

Parameter : EC50 (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Species : Brachydanio rerio (zebra-fish)
Effective dose : > 1000 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Species : Daphnia magna (Big water flea)
Effective dose : 125 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : EC50 (Benzene-1,2,4,5-tetracarboxylic acid; 2-phenyl-4,5-dihydro-1H-imidazole ; CAS No. : 54553-90-1)
Species : Desmodesmus subspicatus
Effective dose : 9 mg/l
Exposure time : 72 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

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

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 0,5 %

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

16.1 Indication of changes

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02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling (67/548/EEC or 1999/45/EC) · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the German employers liability insurance association. DGUV: German Statutory Accident Insurance. 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]

None

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

Special rules for supplemental label elements for certain mixtures

EUH208 Contains BENZENE-1,2,4-TRICARBOXYLIC ACID 1,2-ANHYDRIDE. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
37 Irritating to respiratory system.
41 Risk of serious damage to eyes.
42/43 May cause sensitization by inhalation and skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.6 Training advice

None

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.
