

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 20.01.2012

Version: 1

Revision: 20.01.2012

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

#### 1.1 Product identifier

Trade name: Benzoic Acid technical grade

CAS Number:

65-85-0

EC number:

200-618-2

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

Uses advised against: -

Application of the substance / the preparation: Chemicals for synthesis

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

Penpet Petrochemical Trading GmbH

Merkurring 105

22143 Hamburg

Germany

Tel: +49 40 675 799 0

Fax: +49 40 675 799 99 / 88

Email competent person: sds@kft.de

Information department: See supplier/manufacturer

1.4 Emergency telephone number:

National Poisons Information Service (NPIS)

24 hour national number is 0844 892 0111 professionals only

National Health Service (NHS)

24 hour national number is 0845 4647 consumer

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

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



Xi; Irritant

R37-41: Irritating to respiratory system. Risk of serious damage to eyes.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05



GHS07

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- **Signal word** Danger
- **Hazard statements**
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
- **Precautionary statements**
  - P280 Wear protective gloves and eye protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization: Substances**
- **CAS No. Description:**
  - 65-85-0 benzoic acid
- **Identification number(s):**
- **EC number:** 200-618-2

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
  - Symptoms of poisoning may occur even after several hours; therefore medical observation is suggested for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult a doctor in case of pain.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**
  - Protect unharmed eye.
  - Rinse the eyes with open eyelids for 10 - 15 minutes with water.
  - Treatment by an ophthalmologist
- **After swallowing:**
  - Rinse mouth with water.
  - Drink plenty of water, but never give anything to an unconscious person.
  - Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Irritation of eyes and mucous membrane.
  - After the uptake of large quantities:
    - Local irritation symptoms
  - After resorption of larger quantities:
    - Gastric or intestinal disorders.
  - After inhalation:
    - Irritation of mucous membranes
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No data available
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- Ensure adequate ventilation.
- Avoid formation of dust.
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Do not smoke - keep ignition sources away
- **6.2 Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.  
Make sure to recycle or dispose of in suitable receptacles.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of dust.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid inhalation of dust.  
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**  
Dust can combine with air to form an explosive mixture.



Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Observe the general rules of industrial fire protection.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** Store at ambient temperatures and at dry conditions.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from feed.

Refer to national regulations for storing hazardous chemicals.

**Further information about storage conditions:** Protect from heat and direct sunlight.

**Storage class:** 11 Combustible solids

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical systems:** Install appropriate mechanical ventilation.

**8.1 Control parameters**

**Components with limit values that require monitoring at the workplace:** Not required.

**CAS No. Designation of material % Type Value Unit**

**Additional Occupational Exposure Limit Values for possible hazards during processing:**

Observe general threshold limit for dust.

**Additional information:** The lists that were valid during the creation were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

After contact with eyes rinse immediately.

Provide eye bath.

Use skin protection cream for skin protection.

**Breathing equipment:**

Not necessary if room is well-ventilated.

Use a suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter P2.

**Protection of hands:**

Chemical resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**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.

For undissolved solid substances following materials may be suitable:

Nitrile rubber, NBR

Butyl rubber, BR

Polychloroprene rubber (CR)

Fluorocarbon rubber (FKM)

**Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information:

##### · Appearance:

- |                  |                 |
|------------------|-----------------|
| Form:            | Solid           |
| Colour:          | White           |
| Odour:           | Characteristic  |
| Odour threshold: | Not determined. |

##### · Change in condition:

- |                                  |         |
|----------------------------------|---------|
| Melting point/Melting range:     | 122°C   |
| Boiling point/Boiling range:     | 248°C   |
| Sublimation temperature / start: | > 100°C |

- |              |       |
|--------------|-------|
| Flash point: | 121°C |
|--------------|-------|

- |                                |                           |
|--------------------------------|---------------------------|
| Flammability (solid, gaseous): | Product is not flammable. |
|--------------------------------|---------------------------|

- |                       |       |
|-----------------------|-------|
| Ignition temperature: | 570°C |
|-----------------------|-------|

- |                      |   |
|----------------------|---|
| Danger of explosion: | Product does not present an explosion hazard. |
|----------------------|---|

##### · Explosion limits:

- |        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

- |                          |         |
|--------------------------|---------|
| Vapour pressure at 20°C: | 1.3 hPa |
|--------------------------|---------|

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

- |                       |                         |
|-----------------------|-------------------------|
| Bulk density at 20°C: | ~ 500 kg/m <sup>3</sup> |
|-----------------------|-------------------------|

- |  |         |
|--|---------|
| Solubility in / Miscibility with<br>Water at 20°C: | 2.9 g/l |
|--|---------|

- |  |              |
|--|--------------|
| Segregation coefficient (n-octanol/water): | 1.88 log POW |
|--|--------------|

##### · Viscosity:

- |                       |  |
|-----------------------|--|
| dynamic:              | Not applicable.                            |
| 9.2 Other information | No further relevant information available. |

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

##### · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.  
To avoid thermal decomposition do not overheat.

##### · 10.3 Possibility of hazardous reactions

Risk of dust explosion.  
Formation of highly flammable gases/fumes.  
Reactions with below mentioned substances.

##### · 10.4 Conditions to avoid

No further relevant information available.

##### · 10.5 Incompatible materials:

Flourine

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Oxygen

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

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity:

##### · LD/LC50 values that are relevant for classification:

Oral LDLo 500 mg/kg (human)

LD<sub>50</sub> > 2000 mg/kg (rat)

##### · Primary irritant effect:

- **on the skin:** May cause irritation to the skin.
- **on the eye:** Strongly irritant with the danger of severe eye injury.
- **On respiratory tract:** Irritation of respiratory tract
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):** Ames-test: negative
- **Subacute to chronic toxicity:**
- **STOT-single exposure** Irritation of respiratory tract
- **STOT-repeated exposure:** No classification
- **Aspiration hazard** Not relevant
- **Experience with humans:**

Benzoic acid and its derivates may cause allergic or pseudo allergic symptoms. Especially persons having asthma or an allergy to salicylic acid and its derivates are concerned.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

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

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

- **Other information:** The product is easily biodegradable.

#### · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a significant accumulation in organisms is not expected.

- **12.4 Mobility in soil** No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous to water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### · 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

- **Recommendation:** Disposal according to instructions of local authorities.

#### · Uncleaned packagings:

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

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### SECTION 14: Transport information

· <b>14.1 UN-Number</b> · ADR, ADN, IMDG, IATA	Void
· <b>14.2 UN proper shipping name</b> · ADR, ADN, IMDG, IATA	Void
· <b>14.3 Transport hazard class(es)</b> · ADR, ADN, IMDG, IATA · Class	Void
· <b>14.4 Packing group</b> · ADR, IMDG, IATA	Void
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	-

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** Take note of Directive 94/33/EC on the protection of young people at work.
- **Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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.

- **Department issuing MSDS:**

KFT Chemieservice GmbH  
 Im Leuschnerpark. 3 D-64347 Griesheim  
 Postfach 1451 D-64345 Griesheim

Phone: +49 6155 86829-0 Fax: +49 6155 86829-25

Safety Data Sheet Service: +49 6155 86829-22

- **Contact:** Angelika Torges

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources:** IUCLID-Dossier from ECHA

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