

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 15.10.2007

Revision: 15.10.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** Butyl benzyl phthalate
- **Application of the substance / the preparation** Plasticizer
- **Supplier/Manufacturer:**
 Penpet Petrochemical Trading GmbH
 Merkur-Park
 Sieker Landstrasse 126
 22143 Hamburg
 Germany
 Tel: +49 40 675 799 0
 Fax: +49 40 675 799 99 / 88
- **Email competent person:** angelika.torges@kft.de
- **Information department:** See supplier/manufacturer
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Hazards identification

- **Hazard description:**



Repr. Cat. 2, 3
 T Toxic
 N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment:**

R 61 May cause harm to the unborn child.
 R 62 Possible risk of impaired fertility.
 R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description:**
85-68-7 BBP
- **Identification number(s):**
- **EINECS Number:** 201-622-7
- **EU Number:** 607-430-00-3

4 First aid measures

- **General information:**
 First aid personnel should pay attention to their own safety.
 Remove contaminated clothing and wash before reuse.
- **After inhalation:**
 Supply fresh air or oxygen; call for doctor.
 In case of unconsciousness, place patients on their side in a stable position for transportation.
- **After skin contact:**
 Remove soiled clothes and shoes.
 Clean effected skin thoroughly with water and a mild cleansing agent. No residues shall remain on the skin.
 After extensive or prolonged contact:
 Seek medical treatment.

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- **After eye contact:**

Rinse opened eye for several minutes under running water.
Seek medical treatment.

- **After swallowing:**

Rinse mouth with water.
Drink plenty of water, but never give anything to an unconscious person.
Administer medicinal carbon
Do not administer milk or alcohol.
Seek medical treatment.
Do not induce vomiting.
If vomiting occurs spontaneously:
Hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

- **Information for doctor:**

- **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**

CO₂, 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:** Direct jet water

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.
Dangerous decomposition product see chapter 10: stability and reactivity

- **Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

- **Additional information:**

Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**

Ensure adequate ventilation



Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.

- **Measures for cleaning/collecting:**

Pick up with lime or anhydrous sodium carbonate.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

- **Additional information:** No dangerous substances are released.

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7 Handling and storage

- **Handling**

- **Information for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- Avoid inhalation of vapours.
- Avoid contact with eyes and skin.
- Ensure that suitable extractors are available on processing machines
- Restrict the quantity stored at the work place.

- **Information about protection against explosions and fires:**

- Fumes can combine with air to form an explosive mixture.



Keep ignition sources away - Do not smoke.

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

- Store container tightly sealed at a cool and dry place with sufficient ventilation.
- Prevent any seepage into the ground.
- Provide floor trough without outlet.

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

- Store away from foodstuffs.
- Store away from feed.
- For storage observe regulations for toxic materials.

- **Further information about storage conditions:**

- Store under lock and key and with access restricted to technical experts or their assistants only.
- Protect from humidity and water.
- Keep receptacle tightly sealed.

- **Storage class** 6.1A flammable toxic substances

8 Exposure controls and personal protection

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

- **Components with limit values that require monitoring at the workplace:**

85-68-7 BBP

WEL (Great Britain) Long-term value: 5 mg/m³

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

- **Personal protective equipment**

- **General protective and hygienic measures:**

- The usual precautionary measures should be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Do not eat or drink while working.
- Do not inhale gases / fumes / aerosols.
- Use skin protection cream for skin protection.
- Be sure to clean skin thoroughly after work and before breaks.

- **Breathing equipment:**

- Not necessary if room is well-ventilated.
- In case of unintentional release of the substance, exceeding the occupational exposure limit value:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

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Filter A

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 on consideration of the penetration times, rates of diffusion and the degradation

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

Material of gloves:

Polychloroprene rubber (CR)

Fluorocarbon rubber (FKM)

Nitrile rubber, NBR

Penetration time of glove material:

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

Eye protection: Goggles recommended during refilling.

Body protection:

Protective work clothing.

Apron

Boots

Selection of protective clothing is subject to the specific kind of work and the corresponding risk potential.

9 Physical and chemical properties:

General Information

Form:	Liquid Oily
Colour:	Colourless
Odour:	Nearly odourless

Change in condition:
Melting point/Melting range: -45 bis -35°C

Boiling point/Boiling range: ca.370°C

Flash point: 199°C

Ignition temperature: 232°C

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:
Lower: 0.36 Vol %

Upper: 3.2 Vol %

Vapour pressure at 20°C: <0.000001 hPa

Density at 20°C: 1.125 g/cm³
Solubility in / Miscibility with
Water at 20°C: 0.1 g/l

pH-value at 20°C: < 7

Segregation coefficient (n-octanol/water): 4.73 log POW

Viscosity:
dynamic at 20°C: 61-63 mPas

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Materials to be avoided:

Oxidants

concentrated acids

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- **Dangerous reactions:** No dangerous reactions known
- **Dangerous products of decomposition:**
In the case of fire or at high temperatures the formation of the following decomposition products is possible.
Poisonous gases/vapours

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
Oral LD₅₀ 2330 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** No irritating effect specie: rabbit OECD test 404
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** Risk of skin adsorption.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
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12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
EC₅₀/48h 1.7 mg/l (daphnia magna)
LC₅₀/96h 0.55 mg/l (Parophyrus vetulus)
1.1 mg/l (Salmo gairdneri)
- **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

After consultation of the pertinent authorities and in accordance with the local regulations pertaining to the disposal of hazardous waste product has to be disposed of in an incinerator for hazardous waste.

- **European waste catalogue:**
07 01 99 wastes not otherwise specified

- **Uncleaned packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

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14 Transport information

· Land transport ADR/RID (cross-border)


- **ADR/RID class:** 9 (M6) Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Label:** 9
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP)
- **Remarks:** Limited quantity: 5l per inner packaging, 30 kg gross per packaging unit

· Maritime transport IMDG:


- **IMDG Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A S-F
- **Marine pollutant:** Yes (P)
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate)

· Air transport ICAO-TI and IATA-DGR:


- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate)

15 Regulations

· Markings according to EC guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials "EC-labelling"

· Code letter and hazard designation of product:


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 T Toxic
 N Dangerous for the environment

· Risk phrases:

- 61 May cause harm to the unborn child.
- 62 Possible risk of impaired fertility.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

- 53 Avoid exposure - obtain special instructions before use.

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45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

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

· National regulations**· Information about limitation of use:**

Restrictions on juvenile employment must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

The number of employees handling this chemical substance has to be kept as small as possible.

· Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.**· Other regulations, limitations and prohibitive regulations** Please observe EC directive 98/24/EC

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:

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