

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 30 May 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

p-Terphenyl

1.1. Catalog No.:

679186

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

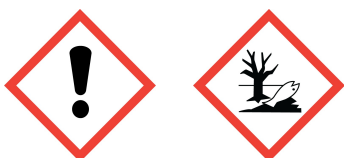
HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008
GHS09 environment
Aquatic Acute 1 H400 Very toxic to aquatic life.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Signal word Warning
- Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eye protection / face 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.

P321 Specific treatment (see on this label).

P405 Store locked up.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

- CAS No. Description

92-94-4 p-Terphenyl

- Identification number(s) None

· EC number: 202-205-2

· RTECS: WZ6475000

3.1.1. Formula

C18H14

3.1.2. Molecular Weight (g/mol)

230.30

3.1.3. CAS-No.

92-94-4

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 for at least 48 hours after the accident is recommended.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse mouth. Do not induce vomiting.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

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.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles.

· Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions: Keep container tightly sealed.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 92-94-4 p-Terphenyl

WEL Short-term value: 4.8 mg/m³, 0.5 ppm

· Additional information: Lists used were valid at the time of SDS preparation.

8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

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

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

Protective gloves

· Material of gloves Fluorocarbon rubber (Viton)

· 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:

Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid

Colour: White

· Odour: Odourless

· Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/freezing point: 212-213 °C

Initial boiling point and boiling range: Not determined.

· Flash point: Not applicable.

· Flammability (solid, gas): Not determined.

· Ignition temperature: Not determined

- Decomposition temperature: Not determined.
 - Auto-ignition temperature: Not determined.
 - Explosive properties: Not determined.
 - Explosion limits:
Lower: Not determined.
Upper: Not determined.
 - Vapour pressure: Not applicable.
 - Density at 20 °C: 1.23 g/cm³
 - Relative density Not determined.
 - Vapour density Not applicable.
 - Evaporation rate Not applicable.
 - Solubility in / Miscibility with
water: Not determined.
 - Partition coefficient: n-octanol/water: 6.03 Log Pow
 - Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.
- 9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
Stable under normal conditions.
No further relevant information available.
- 10.2 Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid
Heat.
Sources of ignition
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Acute toxicity
Harmful if swallowed.
 - LD/LC50 values relevant for classification:
Oral LD50 1,000 mg/kg (rat)
 - Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
 - Serious eye damage/irritation
Causes serious eye irritation.
 - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
 - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - Germ cell mutagenicity Based on available data, the classification criteria are not met.
 - Carcinogenicity Based on available data, the classification criteria are not met.
 - Reproductive toxicity Based on available data, the classification criteria are not met.
 - STOT-single exposure
May cause respiratory irritation.
 - STOT-repeated exposure Based on available data, the classification criteria are not met.
 - Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

- Ecotoxicological effects:

- Remark: Very toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): 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.

Very toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Recommendation

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

- European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- Uncleaned packaging:

- Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

14.1 UN-Number

- ADR, IMDG, IATA UN3077

- ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (p-Terphenyl)

- IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (p-Terphenyl), MARINE POLLUTANT

- IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (p-Terphenyl)

14.3 Transport hazard class(es)

- ADR, IMDG, IATA

- Class 9 Miscellaneous dangerous substances and articles.

- Label 9

14.4 Packing group

- ADR, IMDG, IATA III

14.5 Environmental hazards:

- Marine pollutant: Symbol (fish and tree)

- Special marking (ADR): Symbol (fish and tree)

- Special marking (IATA): Symbol (fish and tree)

14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.

- Danger code (Kemler): 90

- EMS Number: F-A,S-F

- Stowage Category A

- Stowage Code SW23 When transported in BK3 bulk container, see

7.6.2.12 and 7.7.3.9.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

- Transport/Additional information:

- ADR

- Limited quantities (LQ) 5 kg
 - Excepted quantities (EQ) Code: E1
- Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
- Transport category 3
 - Tunnel restriction code E
 - UN "Model Regulation": UN 3 0 7 7 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (P-TERPHENYL), 9, III

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
 - Named dangerous substances - ANNEX I Substance is not listed.
 - Seveso category E1 Hazardous to the Aquatic Environment
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!