

Safety Data Sheet

Release 1.0
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BIOSYNTH®

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1 Identification of the substance

1.1 Product identifier

Identification of the substance 4-Phenylphenol

Additional identification Biphenyl-4-ol;4-Hydroxybiphenyl

Catalogue Number FP62585

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

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

Identified uses other biochemicals

Restriction on use not for food or drug use, for laboratory use only

1.3 Details of the supplier of the safety data sheet

Company Biosynth Ltd
8&9 Old Station Business Park
COMPTON RG20 6NE

Phone +44 1635 578444

Mail customerservice@biosynth.com

1.4 Emergency telephone number

Phone 24hr/7days: +44 118 338 8269

2 Hazards identification

2.1 Classification of the substance or mixture

Physical Hazards

not classified

Health Hazards

Skin irritation (Category 2), H315

Skin sensitiser (Category 1), H317

Environmental Hazards

Chronic aquatic toxicity (Category 2), H411

2.2 Label elements

Regulatory List

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS07 exclamation mark

Pictogram



GHS09 environmental hazards

Pictogram



Signal Word

Warning Warning

Hazard Statement

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

| | |
|-----------------------|-----------------------------------|
| <i>Substance name</i> | 4-Phenylphenol |
| <i>Synonyms</i> | Biphenyl-4-ol;4-Hydroxybiphenyl |
| <i>Cas No.</i> | [92-69-3] |
| <i>Formula</i> | C ₁₂ H ₁₀ O |

4 First aid measures

4.1 Description of first aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Hints for Physician: Symptoms

See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

5.2 Special hazards arising from the substance or mixture

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazards During Fire-Fighting

toxic fumes

5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

6.1 Personal Precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

6.2 Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and material for containment and cleaning up

not available

6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage**7.1 Precautions for safe handling****Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

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

store at 10°C - 25°C

Storage condition

close container well

Storage Requirements

Keep away from incompatible substances. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Specific end use(s)

8 Exposure controles/personal protection**8.1 Exposure limit values**

Does not contain any substances with occupational exposure limits.

8.2 Exposure controles**Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

8.3 Personal Protective Equipment**Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties**9.1 Information on basic Physical and chemical color properties***Form*

powder

Phase Transition Solid/Liquid

165 °C

Phase Transition Liquid/Gas

321 °C

9.2 Other information*Molar Mass*

170.21 g/mol

10 Stability and reactivity**10.1 Reactivity**

No Data Available

10.2 Chemical stability

No Data Available

10.3 Possibility of hazardous reaction

No Data Available

10.4 Conditions to Avoid (SDS)

incompatible materials, heat

10.5 Incompatible materials

strong oxidizers

10.6 Hazardous decomposition productscarbon dioxide (CO₂), carbon monoxide**11 Toxicological information****11.1 Information on toxicological effects****Other Relevant Toxicity Information**

Only selected Registry of toxic effects of chemical substances (RTECS) data is presented here. For the complete information, consult current entry in RTECS.

12 Ecological Information**12.1 Toxicity**

| | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-----------------------------|
| Acute toxicity versus Fishing | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |
| Acute toxicity in aquatic plants | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |
| Acute toxicity versus Daphnia and others aquatic invertebrates | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |

12.2 Persistence and degradability

Remarks : no data available

12.3 Bioaccumulative potential

Remarks : no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Memo : Toxic to aquatic life.

13 Disposal considerations**Advice on Disposal and Packaging***Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

| | Road Transport(ADR/GGVS) | Air Transport(IATA) |
|---|---|---|
| 14.1 UN number | 3077 | 3077 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Phenylphenol) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Phenylphenol) |
| 14.3 Transport hazard class(es) | 9 | 9 |
| 14.4 Packing group | III | III |
| 14.5 Environmental hazard class(es) | Hazards identified | Hazards identified |
| 14.6 Special precautions for user | Not applicable | Not applicable |
| 14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code | Not applicable | Not applicable |

15 Other regulations

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

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------|---|---|---|
| 4-Phenylphenol | ----- | ----- | ----- |

Regulatory List

EINECS, IECSC, TCSI, ENCS, TSCA, NZIOC, AICS, DSL

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16 Additional information

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