

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 17 Apr 2024

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

1.1. Product name:

2-Phenylphenol

1.1. Catalog No.:

691882

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

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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
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400 Classification according to EU Directives 67/548/EEC or 1999/45/EC
N Dangerous for the
environment environment R50 Xi Irritant R36/37/38

2.2. Label elements

2.2.1. Pictogram







2.2.2.

Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Warning Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. Precautionary statement(s) P261 Avoid breathing dust. P273 Avoid release to the environment. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements 2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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Synonyms: 2-Hydroxybiphenyl
Formula: C12H100
Molecular Weight: 170,21 g/mol
CAS-No.: 90-43-7
EC-No.: 201-993-5
Index-No.: 604-020-00-6

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration

Component CI Biphenyl -2-ol CAS-No. EC-No. Index-No. 90-43-7 201-993-5 604-020-00-6 Skin Irrit 2: Ev

Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Acute 1; H315, H319, H335, H400

<= 100 %

<= 100 %
Hazardous ingredients according to Directive 1999/45/EC
Component Classification Concentration
Biphenyl -2-ol
CAS-No.
EC-No.
Index-No.
90-43-7
201-993-5
604-020-00-6
Xi, N, R36/37/38 - R50 <= 100 %

3.1.1. Formula

C12H10O



3.1.2. Molecular Weight (g/mol)

170.21

3.1.3. CAS-No.

90-43-7

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician 4.2 Most important

symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
b) Odour no data available
c) Odour Threshold no data available

d) pH no data available e) Melting point/freezing

point
Melting point/range: 57 - 59 °C - lit.
f) Initial boiling point and

boiling range 282 °C - lit.

g) Flash point 124 °C - closed Cup h) Evapouration rate no data available i) Flammability (solid gas) no data available

Flammability (solid, gas) no data available

Upper/lower j) Uppernon-flammability or explosive limits no data available

no data available
k) Vapour pressure 9 hPa at 140 °C
l) Vapour density no data available
m) Relative density no data available
n) Water solubility no data available
o) Partition coefficient: noctanol/

water

no data available p) Auto-ignition

temperature no data available q) Decomposition

temperature no data available

r) Viscosity no data available

s) Explosive properties no data available t) Oxidizing properties no data available 9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity no data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions no data available
10.4 Conditions to avoid no data available
10.5 Incompatible materials

10.5 Incompatible materials Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Hazardous decomposition products - Carbon oxides In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 Oral - rat - 2.733 mg/kg (OECD Test Guideline 401) LD50 Intraperitoneal - mouse - 50 mg/kg



Skin corrosion/irritation Skin - rabbit

Result: Skin irritation (OECD Test Guideline 404) Serious eye damage/eye irritation

Eyes - rabbit Result: Severe eye irritation Respiratory or skin sensitisation

no data available Germ cell mutagenicity no data available

Carcinogenicity
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Biphenyl -2-ol)

Reproductive toxicity no data available

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available Additional Information RTECS: DV5775000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated

12. ECOLOGICAL INFORMATION

Toxicity to fish LC50 - Danio rerio (zebra fish) - 4,5 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates Invertebrates
LC50 - Daphnia magna (Water flea) - 2,7 mg/l - 48 h
Toxicity to algae EC50 - Algae - 0,85 mg/l - 72 h
12.2 Persistence and degradability
Biodegradability Result: 70,8 - 75,7 % - Readily biodegradable.
(OECD Test Guideline 301B)
12.3 Bioaccumulative potential no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects Very toxic to aquatic life. no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber Contaminated packaging
Dispose of as unused product.



14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077 IMDG: 3077 IATA: 3077

ADR/RID: 3077 IMIDS: 3077 IATA: 3077

14.2 UN proper shipping name
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Biphenyl -2-ol)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Biphenyl -2-ol)
IATA: Environmentally hazardous substance, solid, n.o.s. (Biphenyl -2-ol)
14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes 14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not 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!