

SAFETY DATA SHEET

Version: v1

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

1.1 Product identifiers

Product name : P-Nitrobiphenyl
Product Number : P188349
Brand : aladdin
CAS-No. : 92-93-3

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Toxic to aquatic life with long lasting effects, H411

May cause cancer , H350

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H350

May cause cancer

H411

Toxic to aquatic life with long lasting effects

Precautionary statement(s)

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P203	Obtain, read and follow all safety instructions before use.
P318	if exposed or concerned, get medical advice.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 1-Nitro-4-phenylbenzene; 4-Nitro-1,1'-biphenyl;4-Nitrobiphenyl
Formula	: C12H9NO2
Molecular weight	: 199.2
CAS No.	: 92-93-3
EC-NO.	: no data available

Component	Classification	Concentration
P-Nitrobiphenyl	no data available	≥97%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

If inhaled, please move the patient to fresh air.

In case of skin contact

Remove contaminated clothing,Thoroughly rinse the skin with soapy water and clean water.If you feel unwell, seek medical attention.

In case of eye contact

Separate the eyelids and rinse with flowing water or physiological saline.Seek medical attention immediately.

If swallowed

Rinse your mouth,Do not induce vomiting.Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

no data available

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

If necessary, wear a self-contained breathing apparatus to put out the fire.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

It is recommended that emergency personnel wear self-contained breathing apparatus, anti-static clothing, and rubber oil resistant gloves. Do not come into contact or cross over leaked materials. All equipment used during homework should be grounded. Cut off the source of leakage as much as possible. Eliminate all ignition sources. Designate a warning zone based on the impact area of liquid flow, steam, or dust diffusion, and evacuate unrelated personnel from crosswind or upwind to a safe area.

6.2 Environmental precautions

Collect leaked materials to avoid polluting the environment. Prevent leaks from entering sewers, surface water, and groundwater.

6.3 Methods and materials for containment and cleaning up

Minor leakage: Collect the leaked liquid in a sealable container as much as possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. Do not flush into the sewer. Large amount of leakage: Build embankments or dig pits for containment. Close the drainage pipeline. Cover with foam to inhibit evaporation. Transfer to a tank truck or dedicated collector using an explosion-proof pump, recycle or transport to a waste disposal site for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should receive specialized training and strictly adhere to operating procedures. The operation and disposal should be carried out in places with local ventilation or comprehensive ventilation facilities. Avoid contact between eyes and skin, and avoid inhaling vapors. Individual protective measures refer to Section 8. Stay away from sparks and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled and there should be a grounding device to prevent static electricity accumulation. Avoid contact with prohibited substances such as oxidants (see Part 10 for prohibited substances). When handling, it is important to load and unload with care to prevent damage to the packaging and containers. Empty containers may have residual harmful substances. Wash hands after use and prohibit eating in the workplace. Equip corresponding types and quantities of fire-fighting equipment and emergency response equipment for leaks.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and ventilated warehouse. The storage temperature should not exceed 37 °C. It should be stored separately from oxidants and edible chemicals, and mixed storage should be avoided (please refer to Part 10 for prohibited substances). Keep the container sealed. Stay away from sparks and heat sources. The warehouse must be equipped with lightning protection equipment. The exhaust system should be equipped with a grounding device for conducting and removing static electricity. Adopting explosion-proof lighting and ventilation settings. Prohibit the use of equipment and tools that are prone to generating sparks. The storage area should be equipped with emergency response equipment for leaks and appropriate containment materials.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Operate according to industrial hygiene and safety regulations. Wash hands before rest and at the end of work.

Personal protective equipment

Eye/face protection

Masks and safety glasses, please use equipment that has been tested and approved by official standards such as NIOSH (USA) or EN 166 (EU) to protect the eyes.

Skin protection

Gloves must be checked before use. Please use the correct method to remove the gloves (do not touch the outer surface of the gloves) and avoid any skin contact with the product. After use, please handle contaminated gloves carefully in accordance with relevant laws, regulations, and effective laboratory procedures and procedures.

Please clean and blow dry the protective gloves selected for your hands, which must comply with the specifications given in Regulation (EU) 2016/425 and the derived EN 374 standard.

Body Protection

Anti permeation clothing, flame retardant and anti-static protective clothing, and the type of protective equipment must be selected based on the concentration and content of hazardous substances in specific

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workplaces.

Respiratory protection

If the hazard assessment shows the need to use a gas mask with air purification, please use a full face multi-functional gas mask (US) or ABEK type (EN 14387) gas mask cartridge as a backup for engineering control. If a gas mask is the only way to protect, use a full face ventilation gas mask. The use of respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/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 N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

This product is stable when stored and used at normal ambient temperatures.

10.2 Chemical stability

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Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Electrostatic discharge, heat, humidity, etc.

10.4 Conditions to avoid

Strong oxides, strong acids, strong bases.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

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no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

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

no data available

SECTION 13:

13.1 Disposal considerations

Product

Try to recycle and reuse as much as possible. If it cannot be recycled, incineration method should be used for disposal. Do not dispose of this product by discharging it into the sewer. Before disposal, relevant national and local regulations should be consulted.

Contaminated packaging

Discard as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2811	Packing group: III	Class: 6.1
Proper shipping name: P-Nitrobiphenyl	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: no		

IMDG

UN number: 2811	Packing group: III	EMS-No: no data available
Proper shipping name: P-Nitrobiphenyl		

IATA

UN number: 2811	Packing group: III	Class: 6.1
Proper shipping name: P-Nitrobiphenyl		

SECTION 15: Regulatory information

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

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Regulatory Affairs

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SDS sections updated v1

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