# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : 1,3-Bis(4-aminophenoxy)benzene

CAS No. : 2479-46-1

Manufacturer or supplier's details

Company : Heynova (Shanghai) New Material Technology CO., Ltd

Address : Building 3, No. 690 Bibo Road, Pudong New Area, Shanghai, China

Telephone : +86-178-2110-2608 E-mail address : info@heynovachem.com

## 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance : Solid form Color : yellow - orange

Harmful if swallowed. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**GHS Classification** 

Acute toxicity (Oral) : Category 4
Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic haz-

ard

Category 1

### **GHS** label elements

Hazard pictograms :





Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:** 

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell. Rinse mouth.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal

plant.



### Physical and chemical hazards

Not classified based on available information.

### **Health hazards**

Harmful if swallowed.

#### **Environmental hazards**

Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

## Components

Chemical name	CAS RN	Concentration (% w/w)
1,3-Bis(4-aminophenoxy)benzene	2479-46-1	98

### 4. FIRST AID MEASURES

If inhaled : Remove person to fresh air and keep comfortable for breathing.

Get medical advice/ attention if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately.

If on skin, rinse well with water.

If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.

If easy to do, remove contact lens, if worn.

If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a POISON CENTER or doctor/ physician if you feel unwell.

Rinse mouth.

Most important symptoms and effects, both acute and delayed

None known.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

Specific hazards during fire

fighting

No information available.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment.

Immediately evacuate personnel to safe areas.

Remove undamaged containers from fire area if it is safe to do so.

Special protective equipment for

fire-fighters

Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

Keep people away from and upwind of spill/leak.

Entry to non-involved personnel should be controlled around the

leakage area by roping off, etc.



Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.

### 7. HANDLING AND STORAGE

Handling

Technical measures : Prevent dispersion of dust.

Local/Total ventilation : Ensure adequate ventilation.

Use a local exhaust ventilation.

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Wash hands and face thoroughly after handling.

Avoidance of contact : Oxidizing agents

Storage

Conditions for safe storage : Keep container tightly closed.

Store in a cool and shaded area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Install a closed system or local exhaust.

Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection : Dust mask

Eye/face protection : Safety glasses

Face-shield

Skin and body protection : Protective suit

Hand protection : Protective gloves

\*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color : yellow - orange

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : 116 °C

Boiling point/boiling range : No data available



Flash point : No data available

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit Vapor pressure : No data available

: No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

2.3

Autoignition temperature

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Molecular weight : 292.34 g/mol

### 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None under normal processing.

Incompatible materials : Oxidizing agents

Hazardous decomposition prod-

ucts

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)

### 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

**Product:** 

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single

ingestion.

### **Components:**

### 1,3-Bis(4-aminophenoxy)benzene:

Acute oral toxicity : LD50 (Rat): 1,378 mg/kg

Assessment: The component/mixture is moderately toxic after single

ingestion.



**Skin corrosion/irritation** : No information available.

Serious eye damage/eye irrita-

tion

No information available.

Respiratory or skin sensitiza-

tion

No information available.

Germ cell mutagenicity : No information available.

Carcinogenicity : No information available.

**Reproductive toxicity** : No information available.

STOT-single exposure : No information available.

**STOT-repeated exposure** : No information available.

Repeated dose toxicity : No information available.

**Aspiration toxicity** : No information available.

RTECS No. : BY8236000 (1,3-Bis(4-aminophenoxy)benzene)

### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

### **Product:**

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

# Components:

### 1,3-Bis(4-aminophenoxy)benzene:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 1.9 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): > 2.2 mg/l

Exposure time: 72 h

NOEC (Selenastrum capricornutum (green algae)): 0.4 mg/l

Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic

toxicity)

NOEC (Daphnia magna (Water flea)): 0.029 mg/l

Exposure time: 21 d

## **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## Persistence and degradability

No data available



### Bioaccumulative potential

### Components:

## 1,3-Bis(4-aminophenoxy)benzene:

Partition coefficient: n-

octanol/water

2.3

## Mobility in soil

No data available

#### Other adverse effects

No data available

### 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal in accordance with local and national regulations.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

#### 14. TRANSPORT INFORMATION

### International Regulations

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

Class : 9 Packing group : III

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Class : 9
Packing group : III
EmS Code : F-A, S-F

**Domestic regulation** 

GB 6944/12268

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Class : 9
Packing group : III

# 15. REGULATORY INFORMATION

# Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number : B1A232215381

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

# The ingredients of this product are reported in the following inventories:

CH BAGREG : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory



AICS : Not in compliance with the inventory

DSL : This product contains the following components that are not on the

Canadian DSL nor NDSL.

1,3-Bis(4-aminophenoxy)benzene

ENCS : Not in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

## **16. OTHER INFORMATION**

Revision Date : 2024/10/04 Date format : yyyy/mm/dd

#### Disclaimer

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.