

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : 9,9-Bis(4-amino-3-chlorophenyl)fluorene

CAS No. : 107934-68-9

Manufacturer or supplier's details

Company : Hevnova (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 : white - orange

Toxic to aquatic life with long lasting effects.

GHS Classification

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic haz- : Category 2

ard

GHS label elements

Hazard pictograms :

Signal Word : None

Hazard Statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P273 Avoid release to the environment.

Response:

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

Not classified based on available information.

Environmental hazards

Toxic to aquatic life. 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)
9,9-Bis(4-amino-3-chlorophenyl)fluorene	107934-68-9	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 : Get medical advice/ attention.

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 pro-

cedures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color : white - orange

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : 200 °C

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability : No data available

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



Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower flammability limit Vapor pressure

No data available No data available

No data available

Solubility(ies)

Water solubility insoluble

Solubility in other solvents soluble

Solvent: Tetrahydrofuran

slightly soluble Solvent: Methanol

slightly soluble Solvent: Chloroform

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature No data available

Decomposition temperature No data available

Viscosity

Viscosity, dynamic No data available

Viscosity, kinematic No data available

Molecular weight 417.33 g/mol

10. STABILITY AND REACTIVITY

No data available Reactivity

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),

Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

No information available. **Acute toxicity** Skin corrosion/irritation No information available.

Serious eye damage/eye irrita-

No information available.

Respiratory or skin sensitiza-

No information available.

No information available. Germ cell mutagenicity

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT-single exposure No information available.

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STOT-repeated exposure : No information available.

Repeated dose toxicity : No information available.

Aspiration toxicity : No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

9,9-Bis(4-amino-3-chlorophenyl)fluorene:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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 : B1A232215453

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 : On the inventory, or in compliance with the inventory

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

Canadian DSL nor NDSL.

9,9-Bis(4-amino-3-chlorophenyl)fluorene

ENCS : Not in compliance with the inventory

ISHL : Not 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 : 2024/11/02 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.