

Material Safety Sheet

Part 1 Chemicals and Enterprise Identification

Chemical labeling

Chemical name: Polyamine inhibitor

Enterprise identification

Supplier: Dongying Zhaodi Trading Co., Ltd

Address: 202-12, Long Works Cross-border E-commerce Industrial Park, 233 Nan'er Road, Dongying District, Dongying City, Shandong Province, China

Postal Code: 257100

Product Usage

Identified uses: Laboratory chemicals, Manufacture of substances

Part 2 Overview of Hazards

Emergency Overview

Appearance	Transparent liquid
Colour	Slight yellow
Health hazards	Avoid inhalation
Safety (Physical) Hazards	Not classified as flammable
Environmental hazards	Not classified as an environmental hazard.

GHS Hazard Category

Not included

Label Elements

Signal word: None

Hazard statement: None

GHS prevention note: Contact with skin may cause sensitization

Preventive measures: Keep away from ignition and heat sources

Keep container tightly closed

Use explosion-proof electrical/ventilation/lighting equipment

Take anti-static measures

Wear protective gloves/protective clothing/protective goggles/protective masks.

Accident response: If skin (or hair) contamination occurs, immediately remove and remove all contaminated clothing. Wash skin/shower with water. Wash contaminated clothes before reuse.



If inhaled by mistake: Transfer the victim to fresh air and maintain a comfortable resting position for breathing. Immediately call a detoxification center or doctor.

If it enters the eyes: Rinse carefully with water for a few minutes. If wearing contact lenses and can be easily removed, remove the contact lenses. Continue rinsing. If you feel eye irritation: seek medical attention.

Using a fire extinguisher to extinguish the fire

Safe storage: Store in a cool, ventilated, and dry warehouse.

Disposal: Dispose of according to local regulations.

Physical and chemical hazards

nothing

Health hazards

Contact with skin may cause sensitization

Environmental hazards

Not classified as an environmental hazard

Other hazards

No data available

Part 3 Composition Information

Substance/mixture

Mixture

Major Composition	Cas No.	Appearance
Aliphatic polyamine	26062-79-3	Transparent liquid

Part 4 First Aid Measures

Description of first aid measures

Inhalation: Transfer to fresh air. If symptoms persist, medical advice should be obtained.

Ingestion: If feeling unwell, immediately call a poisoning emergency center/doctor.

Skin contact: Remove contaminated clothing and immediately rinse with plenty of water for at least 15 minutes. If symptoms appear, seek medical treatment.

Eye contact: Lift the eyelids and immediately rinse with plenty of water or physiological saline for at least 15 minutes, including under the eyelids. Seek medical attention immediately.

Advice on protecting rescuers

Advice for protecting rescuers: During first aid, rescuers should wear appropriate personal protective equipment according to the accident situation and surrounding

environment.

Special tips for doctors

Doctor's reminder: Treat according to symptoms.

Part 5 Fire Protection Measures

Fire extinguishing agent

Suitable extinguishing medium: select suitable extinguishing agent (water mist/foam/carbon dioxide).

Unsuitable extinguishing agent: Avoid direct water extinguishing

Special hazards generated by substances or mixtures

Possible phosphorus oxidation and Sodium oxide

Fire extinguishing precautions and protective measures

Protective actions taken during the firefighting process: isolate the accident site and prohibit unrelated personnel from entering; Firefighters wear self priming respirators for operation.

Special protective equipment for firefighters: Suitable protective equipment (including chemical protective gloves) needs to be worn; If there is a possibility of extensive contact with spilled products, chemical protective clothing must be worn. If you need to enter a confined space where a fire has occurred, you must wear self-contained breathing equipment. Choose fire-fighting clothing that meets relevant standards (such as EN469 in Europe, GB8965, NFPA 1994).

Part 6 Emergency Response for Leakage

Personal preventive measures, protective equipment, and emergency response procedures

Use personal protective equipment. Avoid dust generation. Avoid inhaling vapors, smoke, or gases. Avoid inhaling dust.

Environmental protection measures

Maintain good ventilation in the application area. Do not pour into drains, sewers, or rivers.

The storage and removal methods of leaked chemicals and the disposal materials used

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing.

Preventive measures to prevent secondary disasters from occurring

Prevent spilled materials from entering drainage channels, sewers, or rivers.

Part 7 Handling and Storage

Operational disposal

Protective measures for safe handling: Provide suitable ventilation equipment in areas where dust is generated.

Precautions for safe disposal: Maintain good ventilation in the application area. Do not approach sources of ignition.

Product transportation: Avoid contact with oxidants and prevent leakage.

Storage

Safe storage conditions: The product is hygroscopic and should be stored in a cool and ventilated warehouse with sealed packaging. It should be stored separately from prohibited substances.

Packaging materials: lined packaging bags or plastic drums.

Part 8 Exposure Control and Personal Protection

Biological limit

The biological limit for this product has not been established yet.

engineering control

Prevent leakage, strengthen ventilation, set up automatic alarm devices and accident ventilation facilities, set up emergency evacuation channels, and provide safety showers.

Personal protective equipment

Respiratory system: When the concentration in the air exceeds the standard, N95 dust mask should be worn.

Hand protection: Protective gloves must be worn during the use of this material.

Eye protection: Use safety glasses with side protection, and if necessary, use a safety mask.

Skin and body protection: Generally speaking, there is no need for special skin protection measures other than regular work clothes.

Part 9 Physical and Chemical Characteristics

Appearance: Transparent liquid	Color: Slight yellow
Odor: no characteristic odor	Sp. Gravity: 1.02-1.10
Stability: stable	Sol in water: easily soluble
PH: 12-14	Pour pt.: not applicable
Boiling pt: not applicable	Vap. Pressure: not applicable

Part 10 Stability and Reactivity

stability

When disposed of and stored according to regulations, this product is stable.

Hazardous reactions

There is no data indicating hazardous reactions.

Conditions to avoid

Avoid electrostatic discharge and heat sources.

Prohibited compound

Strong oxides, strong acids, strong bases.

Hazardous decomposition products

No data available.

Part 11 Toxicological Information

Product toxicological effect information

Acute oral toxicity: LD50>2000mg/kg for 24 hours (rats).

Acute inhalation toxicity: LC50>0.39mg/L for 4 hours (in mice).

Acute percutaneous toxicity: No data available.

Skin irritation or corrosion: Based on existing data, does not meet classification criteria; But it may cause skin irritation.

Severe eye injury/eye irritation: According to existing data, the classification criteria are not met; May cause eye irritation.

Respiratory or skin allergies: According to existing data, the classification criteria are not met; There should be no sensitization effect.

Germ cell mutagenicity: according to the existing data, it does not meet the classification criteria; There is no data indicating harm.

Carcinogenicity: According to existing data, it does not meet the classification criteria; No data shows carcinogenesis.

Reproductive toxicity: according to the existing data, it does not meet the classification criteria; There is no data indicating harm.

Specific target Organ system toxicity (one-time exposure): according to the existing data, it does not meet the classification criteria; No harm generated.

Specific target Organ system toxicity (repeated exposure): according to the existing data, it does not meet the classification criteria; No harm generated.

Inhalation hazards: According to existing data, the classification criteria are not met; Not considered as an inhalation hazardous substance.

Part 12 Ecological Information

Ecological toxicity

Toxicity to fish (acute toxicity): No data available

Toxicity to other animals (acute toxicity): EC50 large flea (water flea) ->100mg/L
-48 hours,

The toxicity of vertebrates does not meet the GHS classification; Actually non-toxic.

Persistence and degradability

Biodegradability: Currently no data available

Potential Bioaccumulation

Bioaccumulation or bioaccumulation: no significant Bioaccumulation.

Mobility in soil

Mobility in soil: No data available.

Other environmental harmful effects

No data available.

Part 13 Abandonment and Disposal

Waste treatment methods

Residual waste: Treatment should be carried out in accordance with relevant national and local regulations. It should be recycled or reused as much as possible. Waste generated from spills or container cleaning should be collected and disposed of by recognized waste collectors or contractors in accordance with current regulations. The qualifications of the collector or contractor should be determined in advance. Disassemble all packaging for recycling or waste disposal. Do not dispose of it in the environment, drainage ditches, or waterways. Waste should not be allowed to pollute soil or water. Disassemble all packaging for recycling or waste disposal.

Polluted packaging materials: According to the regulations currently in effect, they should be disposed of by recognized waste collectors or contractors.

Disposal precautions: The disposal method should comply with applicable regional, national, and local laws and regulations. If there is a possibility of contact, please refer to the section 8 on personal protective equipment.

Part 14 Transportation Information

UN number of dangerous goods: none

United Nations shipping name: None

United Nations Hazard Classification: None

Packaging category: None

Environmental hazards: No

Transportation precautions: It is necessary to ensure that the loaded goods do not run, emit, drip, or leak, and to install a leak trap at the valve entrance. It is strictly



prohibited to mix and transport with prohibited materials. The packaging should be complete during transportation and the loading should be stable. During transportation, it is necessary to ensure that the container does not leak, collapse, fall, or be damaged. During transportation, it should be protected from exposure to sunlight, rain, and high temperatures. During road transportation, it is necessary to follow the prescribed route; Transport vehicles should be equipped with corresponding types and quantities of fire-fighting equipment and leakage emergency response equipment. Keep away from sources of ignition and heat.

Part 15 Regulatory Information

Chinese regulations

The relevant regulatory information is not complete, and there are other regulations applicable to this product.

The following laws, regulations, and standards have corresponding provisions for the safe use, storage, transportation, loading and unloading, classification, and labeling of chemicals:

Classification and Product Names of Dangerous Goods (GB 6944-2012): Listed
General Principles for Classification and Hazard Disclosure of Chemicals: Listed
Law of the China on the Prevention and Control of Occupational Diseases: Included
List of Key Regulated Hazardous Chemicals: Not included
Catalogue of Highly Toxic Chemicals: Not included
Regulations on the Safety Management of Hazardous Chemicals: Listed
Environmental Management Measures for New Chemical Substances: Listed

Part 16 Other Information

Disclaimers

The information in the SDS of this product is compiled based on the relevant material information currently owned by the unit. Our unit has provided all relevant information comprehensively and truthfully in this SDS, but we cannot guarantee its absolute universality and accuracy. This SDS only provides safety precautions for personnel who have received appropriate professional training and use the product. Individual users who obtain this SDS must make independent judgments on the applicability of this SDS under special usage conditions.