



# Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

Polyether amineZT-143



Version 1.0

Issue date: 04/27/2022

Revision date: 04/27/2022

SDS record number: CSSS-TCO-010-151112

## 1. Identification

Product name	Polyether amineZT-143
Synonyms	-
CAS #	39423-51-3
Product code	-
Product use	Epoxy curing agent. Anti-sag agent for polyurethanes.
Manufacturer/Supplier	
Supplier(Manufacturer):	Zibo Zhengda Polyurethane Co.,Ltd.
Address:	RM1904, BUILDING E, CHUANGYE HUOJU SQUARE, NO.111 LIUQUAN ROAD,ZHANGDIAN, ZIBO SHANDONG PROVINCE,P.R.CHINA
Contact person(E-mail):	arnie@dexin-chem.com
Telephone:	0086-533-3146343
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## 2. Hazard(s) identification

### GHS classification

Physical hazards	Not classified	
Health hazards	Acute toxicity – oral	Category 4
	Acute toxicity – dermal	Category 4
	Eye damage/irritation	Category 1
Environmental hazards	Not classified	

### GHS label elements

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statement

Harmful if swallowed  
Harmful in contact with skin  
Causes serious eye damage

### Precautionary statement

#### Prevention

Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing.  
Wear eye protection/face protection.

#### Response

If swallowed: Call a poison center/doctor if you feel unwell.  
Rinse mouth.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

**Storage**

Not applicable.

**Disposal**

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Not available.

**3. Composition / information on ingredients**

Components	CAS#	Percent
Polyether amine ZT-143	39423-51-3	100%

**4. First-aid Measures**

**First aid procedures**

**Eye contact**

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**Skin contact**

If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

**Inhalation**

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**Ingestion**

Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**Notes to physician**

Treat symptoms.

**5. Fire-fighting measures**

**Flammable properties**

Not available.

**Extinguishing media**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

High volume water jet.

**Firefighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

**Hazardous combustion products**

In case of fire, the following can be released: carbon dioxide, carbon monoxide, nitrogen oxides.

**6. Accidental release measures**

**Personal precautions**

Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection.

**Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers



and lakes or drains inform respective authorities.

## Methods for cleaning up

Neutralise with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### Handling

Do not breathe vapors/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. Keep away from strong acids.

## 8. Exposure controls / personal protection

### Control parameters:

#### Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Appropriate engineering controls:

Use in a well-ventilated area.

#### Individual protection measures, such as personal protective equipment:

##### Eye / face protection

Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

##### Skin protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Impervious clothing.

##### Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

##### General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid

#### Form

Liquid

#### Color

Colorless,Transparent

### Odor

Amine-like

### Odor threshold

Not available

### pH

5% aqueous solution 11.6

### Vapor pressure

1 mmHg 181°C, 5 mmHg 207°C

### Melting point/Freezing point

< -20 °C

### initial boiling point and boiling range

Not available

### Flash point

196°C (Pensky-Martin closed cup)

### Evaporation rate

Not available

### Flammability (solid, gas)

Not available



<b>Explosion limits</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility (water)</b>	562 g/L (20 °C)
<b>Partition coefficient</b>	-1.13 (20 °C)
<b>Auto-ignition temperature</b>	320 °C
<b>Decomposition temperature</b>	236 °C
<b>Specific gravity</b>	0.9480
<b>Density</b>	0.978 g/ml / 8.12 lb/gal (25 °C)
<b>Flammability limits in air, upper, %by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available
<b>Other data</b>	
<b>Viscosity</b>	72 cSt (25 °C)
<b>Color (Apha)</b>	≤50
<b>Water Content (%)</b>	≤0.25
<b>Total amine(meq/g)</b>	6.10-6.60
<b>Primary amine(%)</b>	≥90

## 10. Stability and reactivity

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Strong acids.
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, nitrogen oxides.
<b>Possibility of hazardous reactions</b>	No dangerous reactions known.

## 11. Toxicological information

### Toxicokinetics, metabolism and distribution:

**Non-human toxicological data:** Not available

### Information on toxicological effects:

#### Acute toxicity:

<b>LD50(Oral, Rat):</b>	550 mg/kg bw female
<b>LD50(Dermal, Rat):</b>	> 1000 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	Not classified.
<b>Serious eye damage/irritation:</b>	Causes serious eye damage.
<b>Respiratory or skin sensitization:</b>	Not classified.
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## 12. Ecological information

### Toxicity:



Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	13 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	4.4 mg/L	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** Under test conditions no biodegradation observed.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

**Results of PBT&vPvB assessment:** The substance is not PBT / vPvB.

**Other adverse effects:** No known significant effects or critical hazards.

### 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

**Basic shipping requirements:**

**UN number** UN3082  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyether amine ZT-143)  
**Hazard class** 9  
**Packing group** III  
**Environmental hazards** Yes

#### IATA

**UN number** UN3082  
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyether amine ZT-143)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Environmental hazards** Yes

#### IMDG

**UN number** UN3082  
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyether amine ZT-143)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Environmental hazards** Yes

### 15. Regulatory information

#### US federal regulations

**Toxic Substances Control Act (TSCA)**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.



**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**Classified hazard categories**

Acute toxicity (any route of exposure)

Serious eye damage or eye irritation

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

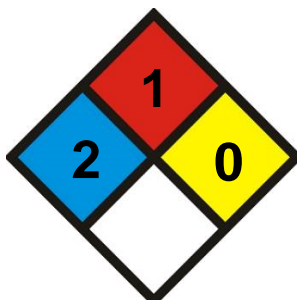
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**HMIS® ratings**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>H</b>

**NFPA ratings**



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

04-27-2022

<https://en.china-polyol.com/>

