



**Safety Data Sheet**  
**According to Hazard Communication Standard (29 CFR 1910.1200)**

Polyether amineZD-1200



Version 1.0

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SDS record number: CSSS-TCO-010-151109

## 1. Identification

<b>Product name</b>	Polyether amineZD-1200	
<b>Synonyms</b>	-	
<b>CAS #</b>	9046-10-0	
<b>Product code</b>	-	
<b>Product use</b>	Key ingredient in the formulation of polyurea and RIM; Co-reactant in epoxy systems which require increased flexibility and toughness.	
<b>Manufacturer/Supplier</b>		
<b>Supplier(Manufacturer):</b>	Zibo Zhengda Polyurethane Co.,Ltd.	
<b>Address:</b>	RM1904, BUILDING E, CHUANGYE HUOJU SQUARE, NO.111 LIUQUAN ROAD,ZHANGDIAN, ZIBO SHANDONG PROVINCE,P.R.CHINA	
<b>Contact person(E-mail):</b>	arnie@dexin-chem.com	
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<b>Emergency telephone Number:</b>	0086-533-3146343	

## 2. Hazard(s) identification

### GHS classification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Skin corrosion/irritation	Category 1C
	Eye damage/irritation	Category 1
<b>Environmental hazards</b>	Not classified	

### GHS label elements

#### Hazard Pictograms



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Causes severe skin burns and eye damage

### Precautionary statement

#### Prevention

Do not breathe dusts or mists.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a poison center/doctor/...  
If in eyes: Rinse cautiously with water for several minutes. Remove contact

<b>Storage</b>	lenses, if present and easy to do. Continue rinsing.
<b>Disposal</b>	Store locked up.
<b>Other hazards</b>	Dispose of contents/container in accordance with local regulation.
	Not available.

### 3. Composition / information on ingredients

Components	CAS#	Percent
Polyether amineZD-1200	9046-10-0	100%

### 4. First-aid Measures

#### First aid procedures

##### Eye contact

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

##### Skin contact

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

##### Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Notes to physician

Treat symptoms.

### 5. Fire-fighting measures

#### Flammable properties

Not available.

#### Extinguishing media



**Suitable extinguishing media**

**Unsuitable extinguishing media**

**Firefighting equipment/instructions**

Use an extinguishing agent suitable for the surrounding fire.

Not available.

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**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental precautions**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**Methods for cleaning up**

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## 7. Handling and storage

**Handling**

Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been



opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 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

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

##### Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL), nitrile rubber. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### 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 10.5

#### Vapor pressure

0.93 mm Hg 235°C, 4.95mm Hg 254°C

#### Melting point/Freezing point

Not available

#### initial boiling point and boiling range

Not available



<b>Flash point</b>	185°C (Pensky-Martin closed cup)
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Explosion limits</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility (water)</b>	Miscible
<b>Partition coefficient</b>	1.34 (25 °C)
<b>Auto-ignition temperature</b>	230 °C
<b>Decomposition temperature</b>	Not available
<b>Specific gravity</b>	0.9480(20 °C)
<b>Density</b>	0.991 g/ml / 8.26 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>	248 cSt (25 °C)
<b>Color (Apha)</b>	≤25
<b>Water Content (%)</b>	≤0.25
<b>Total amine(meq/g)</b>	0.98-1.05
<b>Primary amine(%)</b>	≥97

## 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>	Acids.
<b>Hazardous decomposition products</b>	Ammonia, carbon monoxide, carbon dioxide, aldehydes, ketones.
<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>	480 mg/kg bw
<b>LD50(Dermal, Rabbit):</b>	2090 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	Causes severe skin burns and eye damage.
<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	> 100mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	15 mg/L	48h	Daphnia	OECD 202	N/A	N/A
LC50	135 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:** Not available.

**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** UN2735  
**Proper shipping name** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyether amineZD-1200)  
**Hazard class** 8  
**Packing group** III  
**Environmental hazards** No

### IATA

**UN number** UN2735  
**UN proper shipping name** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyether amineZD-1200)  
**Transport hazard class(es)** 8  
**Packing group** III  
**Environmental hazards** No

### IMDG

**UN number** UN2735  
**UN proper shipping name** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyether amineZD-1200)  
**Transport hazard class(es)** 8  
**Packing group** III  
**Environmental hazards** No

## 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**

Skin corrosion or irritation

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)	Yes
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).

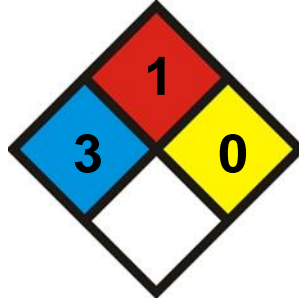
**16. Other information, including date of preparation or last revision**

**HMIS® ratings**

<b>HEALTH</b>	<b>3</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.

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