Polyether amine ZD-1400



Version 2.0 Issue date: 30/04/2025



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Revision date: 30/04/2025	S	SDS record number: CSSS-TCO-010-151109
1. Identification		
Product name	Polyether amine ZD-1400	
Synonyms	-	
CAS #	9046-10-0	
Product code	-	
Product use		on of polyurea and RIM; Co-curing agent in increased flexibility and toughness; General
lanufacturer/Supplier		
Supplier(Manufacturer):	Zibo Zhengda Polyurethane Co	.,Ltd.
Address:	RM1904, BUILDING E, CHUA	NGYE HUOJU SQUARE, NO.111 LIUQUAN
	ROAD, ZHANGDIAN, ZIBO, SH	ANDONG, P.R. CHINA
Contact person(E-mail):	arnie@dexin-chem.com	
Telephone:	0086-533-3146343	
Fax:	0086-533-3142021	
Emergency telephone Number:	0086-533-3146343	
2. Hazard(s) identification		
GHS classification		
Physical hazards	Not classified	
Health hazards	Skin corrosion/irritation	Category 1C
	Eye damage/irritation	Category 1
Environmental hazards	Not classified	
GHS label elements		
Hazard Pictograms		
Signal word	Danger	
Hazard statement	Causes severe skin burns and e	eye damage
Precautionary statement		
Prevention	Do not breathe dusts or mists.	
	Wash hands thoroughly after ha	andling.
	Wear protective gloves/protectiv	ve clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do I	NOT induce vomiting.
		nediately all contaminated clothing. Rinse skir
	with water/shower.	fana
	Wash contaminated clothing be	
		esh air and keep comfortable for breathing.
	Immediately call a poison cente	
Material name: Polyether amine ZD-1400	If in eyes: Rinse cautiously wit	h water for several minutes. Remove contac SDS US

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

3. Composition / information on ingredients

Components	CAS#	Percent
Polyether amine ZD-1400	9046-10-0	100%

shoes thoroughly before reuse.

medical surveillance for 48 hours.

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.

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

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

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.

Use an extinguishing agent suitable for the surrounding fire.

4. First-aid Measures

First aid procedures

Eye	conta	ct

Skin contact

Inhalation

Ingestion

Notes to physician

5. Fire-fighting measures

Flammable properties

Extinguishing media

Suitable extinguishing media

Not available.

Treat symptoms.

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Unsuitable extinguishing media	
Firefighting equipment/instructions	

Hazardous combustion products

6. Accidental release measures

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.

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

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.

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. 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.

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.

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 becarefully resealed and kept upright

to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.



Personal precautions

Environmental precautions

Methods for cleaning up

7. Handling and storage

Handling

Storage

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	I 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	Wash hands, forearms and face thoroughly after handling chemical products,
considerations	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 to pale yellow, Transparent
Odor	Amine-like
Odor threshold	Not available
рН	Not available
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
Flash point	227°C (Pensky-Martin closed cup)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available



Vapor density	Not available
Relative density	Not available
Solubility (water)	Miscible
Partition coefficient	1.34 (25 °C)
Auto-ignition temperature	230 °C
Decomposition temperature	Not available
Specific gravity	Not available
Density	0.994 g/ml (25 °C)
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	877 cSt (25 °C)
Color (Apha)	≤25
Water Content (%)	≤0.25
Total amine(meq/g)	0.45-0.52
Total Acetylatables(meq/g):	0.46-0.53
Primary amine(%)	≥95
10. Stability and reactivity	
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Acids.
Hazardous decomposition products	Ammonia, carbon monoxide, carbon dioxide, aldehydes, ketones.
Possibility of hazardous reactions	No dangerous reactions known.
11. Toxicological information	
Toxicokinetics, metabolism and distribution:	
Non-human toxicological data:	Not available
Information on toxicological effects:	
Acute toxicity:	
LD50(Oral, Rat):	480 mg/kg bw
LD50(Dermal, Rabbit):	2090 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
12. Ecological information	_

Toxicity:

Acute toxicity	Time	Species	Method	Evaluation	Remarks
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	1.050	> 400 //	0.01			N1/A		
	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	
Persistenc	-	-			ons no biodegra	dation observ	/ed.	
Bioaccum	-	ential:		available.				
Mobility in	soil:		Not	available.				
Results of	PBT&vPvE	3 assessment:		available.				
Other adve	erse effects	s:	No	known signific	ant effects or cri	tical hazards.		
13. Dispo	osal cons	siderations						
Disposal ir	nstructions	5	Dis	pose of cont	ents/container i	in accordanc	e with local/reg	ional/national/
			inte	ernational regu	lations.			
Contamina	ited packag	ging	Sir	ice emptied co	ontainers may re	etain product	residue, follow la	abel warnings
			eve	en after contai	ner is emptied.			
14. Trans	sport info	ormation						
DOT								
Basic	shipping re	equirements:						
UN nu	mber		UN	2735				
Proper	r shipping	name	PC	LYAMINES, L	IQUID, CORRO	SIVE, N.O.S.	(Polyether amine	eZD-1400)
Hazaro	d class		8					
Packin	ig group		III					
Enviro	nmental h	azards	No					
ΙΑΤΑ								
UN nu	mber			2735				
-	oper shippi	-	PC	LYAMINES, L	IQUID, CORRO	SIVE, N.O.S.	(Polyether amine	eZD-1400)
-	oort hazard	l class(es)	8					
	ig group		III					
	nmental h	azards	No					
IMDG								
UN nu				2735				
	oper shippi	-		LYAMINES, L	IQUID, CORRO	SIVE, N.O.S.	(Polyether amine	∍ZD-1400)
	oort hazard	l class(es)	8					
	ig group							
	nmental h		No					
15. Regu	latory in	formation						
US federal	regulation	S						
Toxic	Substance	s Control Act (TSCA)						
TSCA	Section 12	(b) Export Notification	on (40 CFR 7	07, Subpt. D)				
Not reg	gulated.							
CERCI	LA Hazardo	ous Substance List (40 CFR 302.4	4)				
Not list								
	-	jency release notifica	ation					
-	gulated.							
OSHA	Specifical	ly Regulated Substar	nces (29 CFF	R 1910.1001-10	053)			
Not list								
Superfund	Amendme	ents and Reauthoriza	tion Act of 1	986 (SARA)				
Material nam	e [.] Polvether	amine 7D-1400						SDS US



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) Accidenta	Il 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	Yes
	(IECSC)	
Japan	Inventory of Existing and New Chemical Substances	Yes
	(ENCS)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical	Yes
	Substances (PICCS)	
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 pro	oduct comply with the inventory requirements administered b	y 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

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	Н



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Disclaimer

Issue date

The information in the sheet was written based on the best knowledge and experience currently available. 30-04-2025

