



Material Safety Data Sheet

SECTION 1: Product and Company Identification

Product identifier

Substance name: Amine-terminated Polyether
Alternate name: Polyether amine
Product name: Amine-terminated Polyether ZM-1207
Equal To Huntsman Jeffamine M2070
CAS NO.: 83713-01-3

Details of the supplier of the safety data sheet

Manufacturer: ZIBO ZHENGDA POLYURETHANE CO.,LTD.
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SECTION 2: Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Hazard pictograms :None

Signal word :None

Hazard statements :No known significant effects or critical hazards.

Precautionary statements :Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.

Prevention:
Handle in accordance with good industrial hygiene and safety practice.

Response:
P312 Call a POISON CENTER/doctor if you feel unwell.

Storage:
Store in accordance with all local, regional, national and international regulations.

Disposal:



P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification
None known.

SECTION 3: Composition/information on ingredients

Substance / Mixture : Substance
Substance name : Methoxy poly (oxyethylene/oxypropylene) -2-propylamine
CAS-No. : 83713-01-3
Synonyms : None

Hazardous components
No hazardous ingredients

SECTION 4: First aid measures

General advice : Treat symptomatically.
Get medical attention if symptoms occur.

First aid measures for different exposure routes

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Get medical attention if irritation develops and persists.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms : None known.
and effects, both acute
and delayed

Notes to physician : Treat symptomatically.

SECTION 5: Firefighting measures

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

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : No information available.

Hazardous combustion : No hazardous combustion products are known



Products

Specific extinguishing : Standard procedure for chemical fires.

Methods No action shall be taken involving any personal risk or withoutsuitable training.

Standard procedure for chemical fires.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.
Neutralise with acid.
Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Storage

Conditions for safe storage : No special storage conditions required. Keep in properly labelled containers.

Materials to avoid : Keep away from strong acids.
For incompatible materials please refer to Section 10 of this SDS.

Further information on storage stability : Stable under normal conditions.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Maintain air concentrations below occupational exposure standards.

Personal protective equipment



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. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hand protection Remarks	: Impervious gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Ensure that eyewash stations and safety showers are close to the workstation location. Tightly fitting safety goggles
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: General industrial hygiene practice.

SECTION 9: Physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: amine-like
Odour Threshold	: No data is available on the product itself
pH	: 10.9
Melting point	: 17 °C
Boiling point/boiling range	: No data available
Flash point	: 243 °C Method: closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Flammability (liquids)	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapour pressure	: < 0.1333 hPa (20 °C)



Relative vapour density	: No data is available on the product itself.
Relative density	: 1.08
Density	: No data is available on the product itself.
Solubility(ies)	: No data is available on the product itself.
Water solubility	
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Thermal decomposition	: No data is available on the product itself.
Self-Accelerating decomposition temperature (SADT)	: No data is available on the product itself.
Viscosity	
Viscosity, kinematic	:186 mm ² /s (37.8 °C)
Explosive properties	: No data is available on the product itself.
Oxidizing properties	: No data is available on the product itself.
Molecular weight	: No data available
Particle size	: No data is available on the product itself.

SECTION 10: Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: None known.
Incompatible materials	: Incompatible with acids
Hazardous decomposition Products	: Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x)

SECTION 11: Toxicological information

Exposure routes	: No data is available on the product itself.
Symptoms of Overexposure	: None known
Acute toxicity	
Acute oral toxicity – Product	: LD ₅₀ (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity – Product	: LD ₅₀ (Rabbit, male and female): > 3,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity – Product	: LD ₅₀ (Rabbit, male and female): > 3,000 mg/kg
Acute toxicity (other routes of administration)	: No data available
Skin corrosion/irritation	
No data available	
Respiratory or skin sensitisation	
No data available	



Assessment : No data available

Chronic toxicity

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : No data available

Carcinogenicity

No data available

Carcinogenicity – : No data available

Assessment

Reproductive toxicity

Effects on fertility : No data available

Effects on foetal : No data available
development

Reproductive toxicity – : No data available

Assessment

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Repeated dose toxicity – : No data available

Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

Ecotoxicity

Toxicity to fish – Product : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l



Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

M-Factor (Acute aquatic toxicity) : No data available

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

Toxicity to microorganisms : No data available

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability

Biodegradability – Product : Inoculum: activated sludge
Result: Not readily biodegradable.

Biodegradation: < 5 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

Bioaccumulative potential Bioaccumulation : No data available

Partition coefficient: n-octanol/water : No data available

Mobility in soil



Mobility	: No data available
Distribution among environmental compartments	: No data available
Stability in soil	: No data available
Other adverse effects	
Environmental fate and pathways	: No data available
Results of PBT and vPvB Assessment	: No data available
Endocrine disrupting potential	: No data available
Adsorbed organic bound halogens (AOX)	: No data available
Hazardous to the ozone layer	
Ozone-Depletion Potential	Not applicable
Additional ecological Information	: No data available
Global warming potential (GWP)	: No data available

SECTION 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

SECTION 14: Transport information

International Regulations

IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Special precautions for user

Not applicable

SECTION 15: Regulatory information

National regulatory information

Regulations on Labelling and Hazard Communication of Hazardous Chemicals

Regulations on Occupational Safety and Health Facilities

Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste

Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control



Regulations: Quantity subject to control

Other international regulations

The components of this product are reported in the following inventories:

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Low volume exemption
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Low volume exemption
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16: Other information

Further information

Sources of key data used to compile the Safety Data Sheet	: Information taken from reference works and the literature
Revision Date	: 2018/04/20
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