Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2015/830,

According to REGULATION (EC) No 1272/2008

POLYETHER AMINE T-5000

Version 1.0

Issue date: 16-01-2020

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Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:	POLYETHER AMINE T-5000
Additional identification:	Not available
Identification of the product:	CAS# 64852-22-8; EC# -
Index Number:	Not available
REACH registration No.:	01-2119488876-14-xxxx (for Ammonia)
	01-2119456809-23-xxxx (for Propylene glycol)
	01-2119471987-18-xxxx (for Glycerol)
	01-2119480483-35-xxxx (for Propylene oxide)
	01-2119486799-10-xxxx (for Trimethylol propane)

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

Production of polymers.

1.2.2 Uses advised against:

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):	Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer):	Yangzhou Chenhua New Material CO., LTD
Address:	No. 231, Zhenzhong Road, Caodian Town, Baoying County, Jiangsu,China.
Contact person(E-mail):	-
Telephone:	0514-82659017
Fax:	0514-88621598

1.4 Emergency telephone Number:

+353 41 980 6916 (Only available during office hours (9:00a.m.-17:30p.m. Beijing Time Zone)

Available outside office hours? YES [ ] NO [X]

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Skin Irrit. 2	H315
Eye Dam. 1,	H318
Aquatic Chronic 3,	H412

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:

Signal Word(S): Danger

Hazard Statement: H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statement: P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment(see First aid measures on this label).

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container in according with local regulation.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Propoxylated glycerol triamine	N/A	64852-22-8	N/A	100%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice.

4.1.2 In case of skin contact:

Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical attention.

4.1.3 In case of eyes contact:

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or medical centre.

4.1.4 In case of ingestion:

Immediately rinse mouth with water. If swallowed do not vomiting. Give water to drink. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Causes skin irritation. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Large fires: water fog, fine water spray or foam.

Small fires: foam, dry chemical, carbon dioxide or water spray.

Unsuitable extinguishing media: Water jets.

5.2 Special hazards arising from the substance or mixture: On burning will emit toxic fumes including those of ammonia and oxides of carbon and nitrogen.

5.3 Advice for firefighters: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighters uniform.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do not touch or walk through spilled material.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator.

6.2 Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Collect spillage.

6.3 Methods and material for Containment and Cleaning up: Contain-prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled drums for disposal. Wash area down with detergent and excess water to remove residual material.

6.4 Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Wear appropriate personal protective equipment (see Section 8). Do not contact with eyes, skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: 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 beverages. Keep locked up. Keep container tightly closed and sealed until time of use. Containers which are opened must be carefully resealed and kept upright to prevent leakage of the product. Do not store in unlabeled containers. Use appropriate containment to avoid environmental environmental.

7.3 Specific end use(s): Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, use local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory law.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear chemical goggles.

Hand protection: Wear impervious chemical resistant gloves.

Body protection: Protective work clothing.

Respiratory protection: Use a full-face supplied air respirator.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colorless
Odour:	Ammonia smell
Odour threshold:	Not available
pH:	11.2
Melting point/range (°C):	Not available
Boiling point/range (°C):	Not available
Flash point (°C):	213°C
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	>1
Relative Density:	Not available
Bulk density (kg/m^3):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	800-1000 mPa.s(25°C)
Explosive properties:	Non explosive
Oxidising properties:	Not available
Molecular Formula:	Not available

Molecular Weight:	Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	Reacts violently with acids.
10.4 Conditions to avoid:	Heat. Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents and acids.
10.6 Hazardous decomposition products:	Ammonia and oxides of carbon and nitrogen.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	
LD50(Oral, Rat):	2690 mg/kg
LD50(Dermal, Rabbit):	>12500 mg/kg
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Causes skin irritation.
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

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:	
LC50(96h, Fish):	68 mg/L
EC50(48h, Crustacea):	N/A
EC50(72h, Algae/aquatic plants):	N/A
Chronic (long-term) toxicity:	
NOEC(Fish):	N/A
NOEC(Crustacea):	N/A

EC50(Algae/aquatic plants): N/A

12.2 Persistence and degradability: Not readily biodegradable.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: Not available.

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	3082	3082	3082	3082
UN Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Propoxylated glycerol triamine)	Environmentally hazardous substance, liquid, n.o.s. (Propoxylated glycerol triamine)	Environmentally hazardous substance, liquid, n.o.s. (Propoxylated glycerol triamine)	Environmentally hazardous substance, liquid, n.o.s. (Propoxylated glycerol triamine)
Transport hazard Class(es)	9	9	9	9
Packing group	III	III	III	III
Environmental hazards	Yes	Yes	Yes	Yes
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	IBC03	IBC03	IBC03	IBC03

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment YES [ ] NO [X]

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008		Classification procedure
Skin Irrit. 2	H315	On basis of test data
Eye Dam. 1,	H318	On basis of test data
Aquatic Chronic 3,	H412	On basis of test data

16.5 Relevant H-statements (number and full text):

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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