

Yantai Longcai Advanced Materials Co., Ltd.

Material Safety Data Sheet

Longcester LC-552

MSDS**1. Chemical Product and Company Identification****Product Name:** LC-552 Hydroxyalkylamide crosslinker**Company Name:** Yantai Longcai Advanced Materials Co., Ltd**Address :** No. 18 Hongkong Rd., Haiyang Development Zone,
Haiyang 265100, China**E-mail:** info@longcester.com**Fax:** +86 535 3306828**Tel :** +86 535 3306828, 3306639**2. COMPOSITION/INFORMATION ON INGREDIENTS****Pure/compound Product:** β -hydroxyalkylamide crosslinker**Hazardous Ingredients:** None**3. HAZARDS IDENTIFICATION**

- 1) **Hazards Identification:** The product is not classified as dangerous goods according to GB-13690-92
- 2) **Health Hazard:** No special hazard
- 3) **Environment Hazard:** No special hazard
- 4) **Explosive Hazards:** None

4. FIRST AID MEASURES

- 1) **Skin contact :** Wash with plenty of soap and water, do Not use organic solution. If dermatitis occurs, seek medical advice
- 2) **Eye contact:** Immediately hold eyelids apart and flush the eye continuously with running water at least 15 minutes. If the eye feels stinging , seek medical advice.
- 3) **Inhalation:** Remove patient to fresh air .if inflammation occurs in the respiratory system or mucous membranes ,or feel uncomfortable or prolonged inhalation, also seek medical advice.
- 4) **Ingestion;** Give patient 500~800ml water to drink, if activated carbon is available, give slurry of activated charcoal in water to drink ,if natural vomiting occurs, ensure airways are clear to prevent asphyxiation. Continually give patient water to drink ..Induced vomiting must be applied by emergency personnel .If narcosis or convulsion occurs ,do Not give any drinks or food ,seek immediate medical advice .

5. FIRE FIGHTING MEASURES

- 1) **Specific Hazards** : No special hazards
- 2) **Extinguish Media**: water spray ,CO₂,foam and chemical powder
- 3) **Unsuitable Extinguish Media**: water jet
- 4) **Precautions in Connections with Fire**: Do not allow run-off from fighting to enter drains ,water courses or surface water .Ensure to apply enough measure to contain contaminated water .Dispose the contaminated water and earth according to the relevant regulation.
- 5) **Protective Equipment** :Fire fighters should wear chemical resistant protective clothing and self-contained breathing apparatus.
- 6) **Hazardous Combustion Products** : Carbon monoxide , carbon dioxide etc toxic vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection :Avoid inhalation of dust;keep away from the source of ignition. Avoid contact with skin and eye .

7. HANDLING AND STORAGE

- 1) **Handling Precaution**: Open container with care .Avoid generating dust and inhalation of dust ,keep away from the source of ignition . Keep well –ventilation in the working area .Do Not eat ,drink or smoke in the working area .
- 2) **Storage Precaution** :Store in a cool ,well ventilated place.Remaining unused should not be exposed to air .Avoid humidity .like flour ,sawdust ,this product has the possibility of explosion. There is the risk of explosion with air ,so it should avoid producing dust formation .Avoid static and spark in workplace..Before load and unload ,the packing should be earthed ,or the container for unload should be earthed

8. EXPOSURE CONTROLS ,PERSONAL PROTECTION

- 1) **Maximum Allowable Concentration**:10mg/m³(Permissible concentration-8hr Time Weighted Average)
- 2) **Protective Measure** :Maximum allowable concentration should be tested by suitable analysis equipments .
- 3) **Respirator Protection** : if the ventilation is poor ,it should wear self-contained breathing apparatus
- 4) **Hand Protection** : wear suitable glove
- 5) **Skin Protection** :Wear protective clothing buttoned at neck and wrist

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|-------------------------------------|---|
| 1) Appearance : White powder | 2) temperature of melting :100~115°C |
| 3) Solid content : ≥99% | 4) Specific gravity(20°C) : 1.35 |

10. STABILITY AND REACTIVITY

Conditions to Avoid :Static discharge ,spark

Materials to Avoid :strong acid ,strong alkali, strong oxidant and water

Hazardous Decomposition Products :Oxides of carbon and oxides of phosphor etc .toxic vapours.

Hazardous Polymerisation: will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Rat Oral LD 50>2000mg /kg EEC 88/379
 Rat Oral LD50 mg/kg

Chronic Toxicity: No Data

Acute Irritant : Rabbit Eye : No irritant EEC 88/379
 Rabbit Skin :No irritant EEC 88/379
 Guinea pig skin: No sensitive EEC 88/379

12. ECOLOGICAL INFORMATION

Acute Toxicity- LC50 Not mg/l zebra fish 96 OECD
 Fish: determined Hours 203

Acute Toxicity- EC50 Not mg/l Daphnia 24 OECD
 Daphnia determined mud Hours 202

Acute Toxicity- LC50 Not mg/l Bacteria 3 OECD
 Bacteria determined Hours 209

Acute Toxicity- EC50 Not mg/l Scenedesmus 72
 Algae determined hours

Bioaccumulation ---

Ecological Effect: Do not release into environment.

13.DISPOSAL CONSIDERATIONS

Waste Property: □Industy solid waste

Waste Disposal: Chemical residua should be incinerated or disposed according to local regulations.

Container Disposal:Contaminated packaging should be disposed of in the same manner as the product .Non –contaminated packaging may be treated like household waste or recycled

14. TRANSPORT INFORMATION

Flash Point :	None		CN No.	:None
Dangerous Goods Code:	UN No.	:None	Class	:User-defined
Transport Packaging (China)	Symbol	:None	Packing Group	:User -defined
RID/ADR(Europe land – carriage)	Hazardous Classification	:Not controlled	Packing Group	:User –defined
IMO(International Maritime Organization)	Hazardous Classification	:Not controlled	Packing Group	:User –defined
ICAO(International Civil Aviation Organization)	Hazardous Classification	:Not controlled	Packing Group	:User –defined
Transport:	prevent packaging from damage and being affected with damp.			

15. REGULATORY INFORMATION

EC No: None

EC Label:None

Classification:User –defined

Safety Phrase: S61 Avoid release to the environment .Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Use or store product according to the criteria of industrial hygiene and local regulations This MSDS summarizes our best knowledge of the health and safety hazard information of the product ,and it is validated on issue date.If the version is updated in the future, we will not notify again.If further information is required ,please visit the Yantai Longcai advanced Materials Co,.Ltd .website: www.longcester.com.