

## MATERIAL SAFETY DATA SHEET

Print date: 18/12/2015

### 1. IDENTIFICATION

#### PRODUCT DETAILS

PRODUCT NAME: Epoxy Resin LC-604H

TRADE NAME: Longcester ®

PRODUCT USE: Powder coatings

MANUFACTURER: Yantai Longcai Advanced Materials Co., Ltd

ADDRESS: 18 Hangzhou Rd, Haiyang Development Zone, Haiyang 265100, PRChina

TELEPHONE NUMBER: +86-535-6919139

FAX NUMBER: +86-535-6919129

### 2. HAZARD IDENTIFICATION:

·GHS LABEL ELEMENT: NO

#### POTENTIAL HEALTH EFFECTS:

##### Inhalation Effects:

Exposure to dust or fume may cause irritation of the respiratory tract. May result in nasal discharge and nosebleeds, coughing, sore throat and labored breathing.

##### Eye Contact:

May cause moderate eye irritation.

##### Skin Contact:

Contains a component which is a known or suspected skin sensitizer.

### 3. FIRST AID MEASURES

**EYES:**In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**SKIN:**In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**INGESTION:**If swallowed, get medical attention immediately. Do not induce vomiting.

**INHALATION:**If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**NOTE TO PHYSICIANS:**No data is available.

#### 4. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:**Carbon dioxide, dry chemical, foam and / or water fog.

**FIREFIGHTING INSTRUCTIONS:**Water spray maybe ineffective. Water may be used to cool closed containers. If water is used, fog nozzles are preferable. However, when fighting chemical fires, self-contained breathing apparatus and protective clothing is recommended.

**UNUSUAL FIRE AND EXPLOSION HAZARD:**Dust control and good housekeeping are required. The dust in the air may ignite explosively. When exposed to extreme heat, it may produce harmful ingredients. Dust may also carry a static charge. Make sure equipment and personnel are grounded to avoid static discharge.

#### 5. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Wear appropriate protective clothing to prevent skin contact. Wear appropriate respirator when ventilation is inadequate. Avoid breathing vapors of this product. Avoid contact with skin and eyes. Avoid all possible sources of ignition (spark or flame). Keep unnecessary people away from spill area. Clean up spills immediately. Absorb with liquid-binding material (sand, diatomite, universal binders, or spill kit). Place in suitable clean, dry containers for disposal by approved methods.

**LARGE SPILL:** Do not clean-up or dispose except under supervision of a specialist. Eliminate all ignition sources. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Keep unnecessary people away from spill area. Follow company spill response procedures. Clean up spills immediately. Wear protective eyeglasses or chemical safety goggles and face protection. Contact lenses are not protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Wear appropriate protective clothing to prevent skin contact. Place spilled material in an appropriate container for disposal. Dispose of according to all federal, state and local applicable regulations.

#### 6. HANDLING AND STORAGE

**HANDLING AND STORAGE PRECAUTIONS:** Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Ground and bond containers when transferring material to prevent dust explosion. Minimize dust generation and accumulation.

**SUITABLE CONTAINER:** Checked all containers are clearly labeled and free from leaks.

**STORAGE INCOMPATIBILITY:**Avoid storage with oxidizers.

**STORAGE REQUIREMENTS:**There is should be stored in the original, unopened and undamaged containers in a dry place at storage temperatures between -6° and 90°F. Exposure to direct sunlight should be avoided.

#### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

**DISCRETION ADVISED:**Yantai LongcaiAdvanced Materials Co., Ltd takes no responsibility for determining what measures are required for personal protection in any specific application. The general information given should be used with discretion.

**ENGINEERING CONTROLS:**Ventilation equipment should be explosion proof. Curing ovens should be properly vented to prevent release of curing off gases into the workplace.

**PERSONAL PROTECTION:**



**RESPIRATORY PROTECTION:**Required for dusts and fume conditions.



**SKIN PROTECTION:** Use neoprene or other nonporous gloves. Neoprene or plastic apron and protective clothing covering exposed skin areas.



**EYE PROTECTION:** Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. Eyewash stations and safety showers should be readily available in handling areas. Use safety eyewear with perforated side shields.

**HYGIENIC PRACTICES:** Wash hands thoroughly before eating and using washroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b> Granular solid
<b>COLOR:</b> Transparent
<b>ODOR:</b> No odor
<b>MELTING POINT:</b> 100~112(°C)
<b>BOILING POINT:</b> NOT APPLICABLE
<b>FIRE POINT:</b> NOT APPLICABLE
<b>SPECIFIC GRAVITY:</b> 1.12g/cm <sup>3</sup>
<b>SOLID CONTENT:</b> 100.0 %

## 9. STABILITY AND REACTIVITY

**CHEMICAL STABILITY (CONDITIONS TO AVOID):**Avoid exposure to sparks, open flame, hot surfaces, and all sources of heat and ignition. May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain carbon monoxide, carbon dioxide, and oxides of nitrogen.

**INCOMPATIBILITY:** None Known.

**HAZARDOUS POLYMERIZATION:**Will not occur

**STABILITY:** This product is stable.

**10. TOXICOLOGICAL INFORMATION**

Not available. Refer to individual constituents.

Unless otherwise specified data extracted from raw material suppliers

Acute oral toxicity (LD50): >5000 mg/kg [Rat]. (Isophthalic acid)

Acute dermal toxicity (LD50): >2000 mg/kg [Rat]. (Isophthalic acid)

**11. ECOLOGICAL INFORMATION**

No data. Refer to data for ingredients.

Unless otherwise specified data extracted from raw material suppliers.

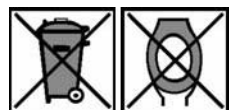
As the product is practically insoluble in water, it is separated in almost any filtration and sedimentation process.

Not biodegradable.

No bioaccumulation potential.

**12. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations

**13. TRANSPORT INFORMATION**

**IMDG PAGE NUMBER:** Not available

**INTERNATIONAL TRANSPORT REGULATIONS:** Not available

**LABELS REQUIRED:** Not available

**SEA TRANSPORTATION CONTAMINANT:** No

**14. REGULATORY INFORMATION**

European Economic Area (including EU): this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, pre-registered and/or registered.

**15. OTHER INFORMATION**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Longcai assumes no obligation or liability for use of this information

Release MSDS department: Technical department

Contact Point: Yajing Yu

Abbreviation:

IMDG: International Maritime Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals