



# MATERIAL SAFETY DATA SHEET

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## **1. Manufacturer/Supplier**

Lonwin Industry Group Limited.

Address: Room 602, Lane 2855, Qixin Road, Shanghai, 201101, P.R. China

Tel: 86-21-64595530

Website: <http://www.lonwinchem.com>

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## 2.Composition / Information on Ingredients

Pure Material  Mixture

<b>Product name</b>	Light Stabilizer 622		
<b>Hazardous Material Number</b>		<b>Content</b>	<b>CAS</b>
Polymeric sterically hindered amine derivative 65447-77-0		100%	

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## 3.Hazards Identification

**Path of invasion** inhalation, ingestion and skin contact

### Hazards of environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 4.First Aid Measures

### Skin contact

Wash off with soap and plenty of water. Do not use organic solvents.

### Eye contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.

### Inhalation

Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.

### Ingestion

Immediately give plenty (>500 ml) of water ( if possible charcoal slurry ). In case of spontaneous vomiting be sure that vomitus can freely drain due of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsion. Call a physician.

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## Material Safety Data Sheet

According to GB16483-2000 General rules for preparation of chemical safety data sheet.

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## 5. Fire-Fighting Measures

### Dangerous property

Explosion risk. Risk of explosion if an air-dust mixture forms.

### **Hazardous decomposition products**

Oxides of carbon, Oxides of nitrogen (NO<sub>x</sub>), Toxic gases/ vapours.

### **Suitable extinguishing media**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder.

### **Notices and measures**

- a) Contaminated water from fine hoses or sprinklers etc, must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.
- b) Special protective equipment for firefighters: Wear full protective clothing. Wear self-contained breathing apparatus.
- c) Extinguishing media which must not be used for safety reasons is high volume water jet.

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## **6. Accidental Release Measures**

### **Accidental measures**

Shut off all sources of ignition.

Personal precautions: Do not breathe vapours/ dust. Avoid contact with skin, eyes and clothing.

Environmental precautions: Do not flush into surface water, sanitary sewer or ground water system.

### **Methods for cleaning up**

Use mechanical handling equipment. Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled.

Avoid dust formation

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According to GB 16165-2000 General rules for preparation of chemical safety data sheet.

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## **7. Operational Handling and Storage**

Handle and open container with care. Avoid dust formation and ignition sources.

Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace. If flammable solvents are present inert container or use a system otherwise designed for storage or contain an explosion-seek expert advice.

Keep away from food and drink. Store in the original container securely closed.

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## **8. Exposure Controls / Personal Protection**

Keep container closed. Empty only into earthed containers. If container is larger than 200 litres of chloroform (MAG) when

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The value of internal exposure limit is 10 mg/m<sup>3</sup> which is 8 hour time weighted average.

### **Monitoring methods**

Exposure limit(s) should be monitored using suitable analytical equipments.

**Respiratory protection**

Effective dust mask

**Eye protection**

Suitable goggles or face protection

**Body protection**

Working clothes, Closed footwear

**Hand protection**

Protective gloves

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**9. Physical and Chemical Properties****Appearance and behaviour**

White to slightly yellow powder,

odorless

**PH-value (1% suspension in water 20~25°C)**

6.3

**Melting / freezing temperature**

50~70°C (softening range)

**Boiling point/ range**

not applicable

**Density (20°C)**

ca 1.22g/cm<sup>3</sup>

**Flash point**

>250°C

**Ignition Temperature**

370°C

**Oxidising properties**

not tested

**Self-ignition temperature**

not tested

**Water solubility (20°C)**

ca 1.6mg/L

**Vapour pressure (20°C)**

2.5 E-6 Pa

**Partition coefficient (Log Pow, 20~25°C)**

5.2

**Explosive properties**

not tested

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**10. Stability and Reactivity****Decomposition temperature**

>350°C

**Conditions to avoid**

Static discharges

**Materials to avoid**

Strong acids, strong bases and strong oxidising agents

**Decomposition products**

Oxides of carbon, oxides of nitrogen (NO<sub>x</sub>), Toxic gases/ vapors.

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## 11. Toxicological Information

<b>Acute oral toxicity</b> <i>Rat</i>	LD <sub>50</sub> >2000 mg/ kg
<b>Acute dermal irritation/corrosion</b> <i>Rabbit</i>	not irritant
<b>Acute eye irritation/corrosion</b> <i>Rabbit</i>	not irritant
<b>Acute skin sensitisation</b> <i>Guinea pig</i>	not sensitizing

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## 12. Ecological Information

<b>Acute toxicity to fish</b> Zebra fish ( <i>Brachydanio rerio</i> ) 96 h	LC <sub>50</sub> >100 mg/l
<b>Acute toxicity to daphnia</b> <i>Daphnia magna</i> 24 h	EC <sub>50</sub> 25 mg/l
<b>Acute toxicity to bacteria</b> Sewage sludge 3 h	IC <sub>50</sub> >100 mg/l
<b>Acute toxicity to algae</b> <i>Scenedesmus</i> sp. 72 h	EC <sub>50</sub> >100 mg/l
<b>Biodegradability</b>	Not biodegradable

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## 13. Disposal Considerations

### Measures of waste disposal

Waste from residues or unused products should be disposed by incineration or by other modes of disposal in compliance with local legislation.

### Notice of waste disposal

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management

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schemes (recovery recycling, reuse) according to local legislation.

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**14. Transport Information**

<b>Packaging marking :</b>	Free
<b>Packaging sort :</b>	III
<b>Packaging method :</b>	plastic lined paper barrel
<b>Transport notice :</b>	moisture prevention, rain prevention

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**15. Regulatory Information**

《Statutes for dangerous goods of chemical safety management》  
(which is released by state Department On Feb 17 , 1987)

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**16. Other Information**

**Reference materials :** Lonwin Industry Group Limited.

**Date of filling in :** Sep 21, 2013

**Department of filling in :** Quality Department and Technology Department

**Assessor :** General manager

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