

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

### **MATERIAL SAFETY DATA SHEET**

: According to EC-directive 2001/58/EC

HS Code: 38123100.00

Rubber Antioxidant TMQ(RD)EHQ

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

Qingdao YLSCH Industry&Trade Co.,Ltd

**Supplier** Room 501,2-3 Unit. No.8,Zhengzhou Road,

Qingdao, China.

TEL: +86 18661665800

Emergency telephone TEL: +86 18661665800

Intended use Rubber Antioxidant

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

**CAS NO.** 26780-96-1

Chemical description Amber to brown granule

TSCA NO. none EINECS NO. none

 $\textbf{Other information} \qquad \qquad (C_{12}H_{15}N)n$ 

#### 3. HAZARDS IDENTIFICATION

Dust suspended in air ignites easily. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4. FIRST AID MEASURES

Dust may be irritating to the respiratory tract and cause symptoms of

Symptoms and effects bronchitis.

Repeated contact may cause skin sensitization.

First aid

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

**Inhalation** Move to fresh air. If symptoms persist, seek medical advice.

**Skin** Wash immediately with soap and water.

Eye Rinse thoroughly with plenty of water. Eyelids should be held away from

the eyeball to ensure thorough rinsing.



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Seek medical advice if irritation develops.

**Ingestion** Only when conscious, rinse mouth, give plenty of water to drink.

Don't induce vomiting. Seek medical advice.

Advice to physician No specific recommendations.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** Waterspray, water mist, foam, dry chemical powder, CO<sub>2</sub>

Unsuitable extinguishing media Waterjet

**Special exposure hazards** Emits toxic fumes under fire conditions.

Hazardous decomposition/ Combustion products Protective equipment

Carbon monoxide (CO), nitrous gases (NOx).

Wear self contained breathing apparatus.

**Other information** Do not allow run-off from fire fighting to enter drains or water courses.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** For personal protection see Section 8. Avoid dust generation.

**Environmental precautions**Do not flush into public water courses .Avoid discharge into the environment.

Collect as much as possible in a clean container for

Methods for cleaning up (preferable) reuse or disposal.

#### 7. HANDLING AND STORAGE

**Handling** Avoid dust generation. The usual precautions for handling chemicals

should be observed.

Fire and explosion prevention Dust/air mixtures may ignite violently upon exposure to

sparks or sources of ignition.

Storage requirements Store in a dry and cool place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Avoid dust generation. Ensure good ventilation and local

exhaustion of the working area.

**Exposure limits** 

Name:Polymerized-2,2,4-trimetyl-1,2-

dihydroquinoline

No exposure limit has been established

Personal protection

**Respiratory** Avoid breathing dust. In case of insufficient ventilation,

wear suitable respiratory equipment.

**Hand** Wear protective gloves. PVC or rubber gloves.



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**Eye** Wear safety goggles.

**Skin and body**Wear suitable protective clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to brown granule	Colour	Amber to brown
Odour	faint, aromatic	Boiling point	
Melting point≽	80.0-110.0℃	Flash point	<b>243</b> ℃
Flammability	Solid:substance:not (in)flammable.	Explosion limits	
Explosive properties	Dust:dust-explosion hazard	Decomposition temperature	
Oxidizing properties	not applicable	Vapour pressure	Negligible
Density	1.095 Typical	Bulk density	
Ash content (%) ≤	0.50	Solubility in other solvents	
Monomer Content (%)	Approx 3	Partition coefficient	Log Pow = 3.22
Isopropyl bis Anilin %	Approx 2.5	Loss on drying(%) ≤	0.7
Viscosity		Primary Amines (%)	Approx 8
Strrength of grain (N)	0.6-2.5	Zinc content %	

### 10. STABILITY AND REACTIVITY

	Stable under recommended storage and handling conditions
Stability	(see section 7).
Conditions to avoid	Heat,sources of heat,naked flames,sparks
Materials to avoid	Strong oxidising agents
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO),
	nitrous gases (NOx).

### 11. TOXICOLOGICAL INFORMATION

Name Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

**Acute toxicity** 

Oral LG50 rat: 2225mg/kg.

**Dermal LD50** rabbit: <5010 mg/kg.

Irritation

**Skin** Non- irritating to skin .

Eye Slightly irritating to eyes but not sufficient for classification.



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#### 12. ECOLOGICAL INFORMATION

Name
Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

Ecotoxicity
96h-LC50 (Lepomis macrochirus): 54 mg/l.

Fish
96h-LC50 (Oncorhynchus mykiss): 50 mg/l.
96h-LC50 (Pimephales promelas): 64mg/l.

Daphnia
48h-EC50 (Daphnia magna): 5.8 mg/l.

Algae
96h-IC50 (Selenastrum capricornutum): >1000mg/l.

Fate

**Degradation Biotic**Not readily biodegradable.

#### 13. DISPOSAL CONSIDERATIONS

Product

Avoid discharge into the environment

Small quantities: According to local regulations.

Large quantities: Consult YLSCH Chemical for special advice.

Contaminated packaging

According to local regulations.

Waste code number: Please refer to your specific industry

Other information

in the European Waste Catalogue.

### 14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class ---- RID class

ADR/RID packing group ||| Hazard Identification No.

Substance Identification No. 3077 UN number 3077

Environmentally hazard us substance, solid, n.o.s.

**Proper Shipping Name** (Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline)

Sea transport (IMDG-code/ IMO)

Correct technical name ----- IMDG Class

UN Number -----

Packaging group

EMS Number ----

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class ..... UN number ----

Packing group Environmentally hazardous substance, solid, n.o.s.

Correct technical name (Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline)



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### 15. REGULATORY INFORMATION

Chemical description Polymerized-2,2,4-trimetyl-1,2-dihydroquinoline

Labelling according to EC directives

**EC-number** See section 2

Classification based on Annex-1 to directive 67/548/EEC

R 43 May cause sensitization by skin contact

**R(isk)** phrase(s) May cause long-term adverse effects in the aquatic environment.

S 24 Avoid contact with skin

S 37 Wear suitable gloves

S(afety) phrase(s) S 60 This material and its container must be disposed of as hazardous

waste

S 61 Avoid release to the environment. Refer to special

instructions/Safety data sheets

Other information To be displayed on the label: "EC label".

Wassergefährdungsklasse (WGK) 2 (VwVwS Anhang 3, Nr. 1318)

#### **16.OTHER INFORMATION**

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.