

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)HQ

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

Other information (C₁₂H₁₅N)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, CO₂

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 precautionsDo 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 bodyWear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to brown granule	Colour	Amber to brown
Odour	faint, aromatic	Boiling point	
Melting point≽	90.0-100.0℃	Flash point	243℃
Flammability	Solid:substance:not (in)flammable.	Explosion limits	
Explosive properties	Dust:dust-explosion hazard	Decomposition temperature	
Oxidizing properties	not applicable	Vapour pressure	Negligible
Density	1100 kg/m³ (20 °C)	Bulk density	600-630 kg/m ³
Solubility in water	0.0025-0.0032 kg/m³ (25°C)	Solubility in other solvents	Acet,benzene,chloroform, carbon bisalfide
pH value	approx.7(Aqueous dispersion)	Partition coefficient	Log Pow = 3.22
Residues (150um)% Max		Heating Loss % Max	
Viscosity		Assay content % ≥	
Strrength of grain (N)	0.6-2.5	Zinc content %	

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

(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 BioticNot 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 III 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.