



TMQ

Henan Rongxin Auxiliary Co., Ltd.

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Material Safety Data Sheet

==ANTIOXIDANT TMQ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ANTIOXIDANT TMQ

Chemical Name: 2,2,4-trimethyl-1,2-dihydroquinoline content

Use: Rubber additives

Manufactured By: TIANJIN EAST RICHON RUBBER ADDITIVES CO., LTD (CHINA)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components/CAS# 26780-96-1 **Percent** 98-100

2,2,4-trimethyl-1,2-dihydroquinoline content

3. HAZARDS IDENTIFICATION

Hazard Information

Emergency Overview: If you touch it, please wash it by water, which it is ok.

4. FIRST AID MEASURES

Swallowed: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Notes To Physician: Treatment should be directed at preventing absorption, administering to symptoms as they occur, and providing supportive therapy.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): 284°F / 140°C (Powder)

Flash Point Method: Cleveland Open Cup

Autoignition Temp. (°F/C): Not Determined

Lower Explosion Limit in Air (LEL): 20-200 mg/l (dust cloud)

Upper Explosion Limit in Air (UEL): Not Determined.

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Special Exposure Hazards: Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not

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MBT(M),MBTS(DM),ZMBT(MZ),CBS(CZ),NS(TBBS),NOBS(MOR),DCBS(DZ),DPG(D),DOTG,TMTD,TETD,TMTM(TS),
TiBTD,TBzTD,DPTT(TRA),ZDMC(PZ),ZDEC(EZ),ZDBC(BZ),ZEP(CPX),ZBDC(ZBEC),ETU(Na - 22),DETU,DTDM,PVI(CTP),
MB,MBZ,MMB,ZMMB,6PPD(4020),IPPD(4010Na),SP,SP-C,TMQ(RD),BHT(T501),NDBC,NBC



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allow runoff to enter waterways.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment:

6. ACCIDENTAL RELEASE MEASURES

Procedure for Cleaning/Absorption: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak where safe.

Remove ignition

sources and work with non-sparking tools. Scoop up and remove.

7. HANDLING AND STORAGE

Handling: Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store closed containers in a cool, dry, well-ventilated area. Store away from strong oxidizing materials. Avoid exposure to direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear safety glasses or goggles to protect against exposure. Wear eye protection

appropriate to handling activities.

Skin Protection: Normal work coveralls.

Gloves: Use gloves as a standard industrial handling procedure. All cleanable impervious glove

types are acceptable.

Respiratory Protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure Demand Full Face Self Contained Breathing Apparatus.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. If air is to be recirculated, it must be filtered properly.

Airborne Exposure Limits:

Nuisance Dust. OSHA PEL/8Hr-TWA = 15 mg/m³ (Total Dust). OSHA PEL/8-Hr TWA = 05 mg/m³ (Respirable Dust). ACGIH TLV/8-Hr TWA = 10 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:amber to browns granule

Odor: AROMATIC

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TiBTD,TBzTD,DPTT(TRA),ZDMC(PZ),ZDEC(EZ),ZDBC(BZ),ZEPC(PX),ZBDC(ZBEC),ETU(Na - 22),DETU,DTDM,PVI(CTP), MB,MBZ,MMB,ZMMB,6PPD(4020),IPPD(4010Na),SP,SP-C,TMQ(RD),BHT(T501),NDBC,NBC



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pH: N/A

Specific Gravity: 1.1 @ 25°C

Density: Unknown

Bulk Density: 190-230 kg/m³ (Powder) 600-630 kg/m³ (Pastilles)

Melting Point (°F/C): 120°C (Softening Point)

Boiling Point (°F/C): >315°C

Vapor Pressure: Negligible

Vapor Density (Air=1): Not Determined

% Volatile by Volume: <0.5%

Solubility in Water: INSOLUBLE

Other Solubility: Soluble in Acetone Ethanol Chloroform Organic liquids, including fats and oils Toluene

Viscosity: Not determined.

Other Data: Ash content = 0.3% max.

Molecular Weight: [173.3]_n

Molecular Formula: [C₁₂-H₁₅-N]_n n = 2.5 (typical)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid contact with heat, sparks, open flame, and static discharge. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen. Heat.

Materials to Avoid: Contact with oxidizing agents. Nitric acid.

Hazardous Decomposition Products: Carbon monoxide. Oxides of nitrogen.

Additional Guidelines: Thermal decomposition begins @ 90°C.

11. TOXICOLOGICAL INFORMATION

Target Organs

Acute Oral LD50 (mg/kg): 2250 mg/kg

Acute Dermal LD50 (mg/kg): >5010 mg/kg

Acute Inhalation LC50 (mg/l): Not Determined

Principle Routes of Exposure: Eyes. Inhalation. Dermal - skin.

Ingestion: Illness may occur after a single swallowing of relatively large quantities of this material.

Primary Irritation Effect: Practically non-irritating Possible sensitizer.

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Carcinogenicity: Negative in standard tests using bacteria and yeast cells

Genotoxicity: None

Reproductive/Developmental

Toxicity: Not determined

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity: 96Hr LC50 Rainbow Trout = 50.0 mg/l. 96Hr LC50 Bluegill Sunfish = 54.0 mg/l. 96Hr LC50 Fathead Minnow = 64.0 mg/l.

Acute Crustaceans Toxicity: 48Hr EC50 Daphnia Magna: 5.8 mg/l.

Acute Algae Toxicity: 96Hr EC50 Algae = >1000 mg/kg.

Octanol/Water Coefficient: 3.2 log P

Chemical Fate Information: Biodegradability: <10% in river water. 8% based on CO₂ evolution.

Other Information: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method:

This material is not a RCRA hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal.

Contaminated Packaging:

If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Dispose of container according to national or local regulations.

14. TRANSPORT INFORMATION

DOT:DOT Status: Not Regulated

DOT Shipping Name: NONE

DOT Reportable Quantity (lbs): None

ICAO/IATA:Status: NOT REGULATED FOR TRANSPORTATION

Proper Shipping Name: None

UN/NA Number: NONE

IMDG:Status: Not Regulated

Proper Shipping Name: None

TDG (Canada):Status: Not Regulated

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Proper Shipping Name: None

15. REGULATORY INFORMATION

Worldwide Inventory Status

Canadian NDSL: N/A

Australian Chemical Inventories

California Proposition 65: NONE

16. OTHER INFORMATION

Hazard Rating Systems:

HMIS Classification: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

The following has been revised since the last issue of this MSDS:

Nothing has been revised.

Additional Information: NONE

Important Note: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process.
Final

determination of suitability of any material is the sole responsibility of the user.

*****END OF MSDS*****

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