

# HB Chemical Corporation

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Date: May, 2011  
Replaces: Feb., 2005

## Material Safety Data Sheet

### SECTION I

### CHEMICAL and COMPANY IDENTIFICATION

**PRODUCT:** *TMQ powder (A0224)*  
**CHEMICAL NAME:** Poly(1,2-hydro-2,2,4-trimethylquinoline)  
**COMMON/GENERIC NAME:** TMQ  
**CHEMICAL FAMILY:** Accelerator  
**Distributor:** HB Chemical Corp. - Customer Service 603-279-5216  
**EMERGENCY NUMBERS:** CHEMTREC 800-424-9300  
CANUTEC(Canada) 613-996-6666

### SECTION II

### COMPOSITION / INGREDIENT INFORMATION

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
<b>COMPOSITION:</b> Poly (1,2-dihydro-2,2,4-trimethylquinoline) C.A.S.# 26780-96-1	None established	None established

### SECTION III/IV

### HAZARDS / FIRST AID PROCEDURES

**EMERGENCY OVERVIEW:** A Amber powder. which may cause allergic skin and respiratory reactions. May eye and skin irritation. Not known as an acute health Hazard. Suspended dust in the air may create and present an explosion hazard.

**EYE:** Flush eyes with water for 15 min. Call a physician if irritation develops.

**SKIN:** Prolonged or repeated skin contact may cause irritation. Remove contaminated clothing and wash skin with soap and water. If in contact with hot product, treat as a burn.

**INGESTION:** Do not induce vomiting. Give 2 glasses of water (never give anything to a unconscious person. Call a physician. If victim does vomit keep head below waist to prevent vomit from entering the lungs.

**INHALATION:** Can be irritating to the eyes, nose and respiratory tract following prolonged exposure. Remove to fresh air; give artificial respiration or oxygen if necessary.

**TOXICITY:** No significant adverse effects expected. Not considered toxic/hazardous.

**CARCINOGENICITY:** Not listed by NTP, IARC or OSHA

**IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN**

### SECTION V

### FIRE AND EXPLOSION INFORMATION

**FLASH POINT** 200°C (390°F) COC

**FIRE-FIGHTING PROCEDURES:** Use Chemical foam, CO<sub>2</sub>, Dry Chemical, water fog.

**HAZARDOUS COMBUSTION PRODUCTS:** This product will decompose under extreme temperatures forming oxides of carbon as well as Aromatic hydrocarbons and nitrogen oxides.

**PROTECTIVE EQUIPMENT:** Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.

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Explosion Hazards: Dust suspended in air in critical proportions with a presence of an ignition source presents an explosion hazard. The following is critical in TMQ powder and dust particles:

Min. explosion concentration: 0.03 oz/cu ft  
Min. ignition energy: 0.15 joules  
Maximum rate of pressure rise: 16,00 psi/sec. At 1oz cu ft  
Max. Pressure of explosion: 66 [psig at 0.5](#) oz/cu ft.  
Explosion severity: 5.8 (severe)  
Volume resistivity: 4.28 x10+15 ohm-cm  
NFPA standard 497M rating (1986 edition): class II, Group G  
(the above was obtained from RT Vanderbilt MSDS code 02106)

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## SECTION VI

### SPILLS AND ENVIRONMENTAL INFORMATION

**SPILL OR LEAK PRECAUTIONS:** Wear appropriate protective clothing, gloves and equipment. Eliminate all sources of ignition. Contain spill. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Prevent run-off into sewers or natural waterways. Spills in excess of the RQ must be reported to the local emergency response organizations. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802)

**WASTE DISPOSAL:** All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

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## SECTION VII

### HANDLING AND STORAGE

Store in sealed containers in dry, ambient temperature conditions (less than 110°F). Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

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## SECTION VIII

### EXPOSURE CONTROLS AND PERSONAL PROTECTION

**VENTILATION:** Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

**RESPIRATORY AND PERSONAL PROTECTION:** Respirators should be selected when TWA exceeded. Safety glasses with side shields; gloves, boots and apron as appropriate.

**FACILITIES:** Consideration to properly engineered explosion suppression should be considered when large amounts of product are handled. There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

**TVL/PEL:** OSHA 5 mg/cu m (respirable dust); 15 mg/cu m (total dust) ACGIH 10 mg/cu m (total dust)

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## SECTION IX

### PHYSICAL AND CHEMICAL INFORMATION

Appearance: Amber powder  
Specific Gravity @25°C = 1.06  
Vapor Pressure: ND  
Viscosity cPs (25°C) = ND

Evaporation Rate: < 1 (butyl acetate=1)  
Melting Point: 82-102 C  
Refractive Index 25°C: ND  
Solubility in Water: Not soluble

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## SECTION X

## STABILITY AND REACTIVITY

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm; c) should be kept away from extreme heat, strong oxidizers and bases; d) this product decomposes under high temperature and hydrolyses in humid conditions.

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## SECTION XI

## TOXICOLOGICAL INFORMATION

Routes of Entry: Eye, Inhalation and Ingestion

Acute Oral (Rat) 4900 mg/kg (LD50)

Acute Dermal (Rabbit) >20000 mg/kg (LD50)

Mutagenic Effects: Non-mutagenic for mammals

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## SECTION XII

## ECOLOGICAL INFORMATION

**Ecotoxicity: Ecotoxicity in water (LC50): 54 mg/l 96 hours (bluegill). 50 mg/l 96 hours (trout). 64 mg/l 96 hours (fathead minnow). 5.8 mg/l 48 hours (daphnia)**

**BOD and COD: Not available**

**Biodegradability: Not available**

**Products of Biodegradation: No likely short term hazards of degradation however, potential long term may arise.**

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## SECTION XIII

## **DISPOSAL CONSIDERATIONS**

Incineration by a permitted hazardous waste facility in accordance with all regulatory requirements is the preferred method of disposal. Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations. For spill clean-up procedures see Sect.VI.

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## SECTION XIV

## **TRANSPORTATION INFORMATION**

**DOT:** Not restricted. Label: Product trade name with chemical description.

**CANADA TRANSPORT HAZ.GOODS:** Not restricted.

**AIR (IATA/ICAO):** Not restricted. Label: Product trade name with chemical description.

**EUROPEAN TRANSPORTATION:** ADR/RID HAZ. CLASS: Not regulated.

**US CUSTOMS:** - HARMONIZED TARIFF CODE: 2917.12.50.00

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## SECTION XV

## **REGULATORY INFORMATION**

**OSHA:** Not Determined

**SARA TITLE III:** - 311/312 CATEGORIES: Not listed.

“ “ - 313 Reportable ingredients: None

**CERCLA RQ:** Not applicable.

**RCRA Status:**

**TSCA REGULATORY:** All intentional ingredients are listed in the TSCA Inventory.

**CANADA WHMIS HAZARD SYMBOL AND CLASS:** Not Regulated

**CANADA INGREDIENT DISCLOSURE LIST:** Does not contain any ingredients on the IDL. All intentional ingredients are on the DSL.

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## SECTION XVI OTHER INFORMATION

HMIS Label: Health: 1  
Fire: 1  
Reactivity: 0  
Protection: A

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Prepared: MAY, 2008

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

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