



# KEMAI Chemical Co., Ltd.

No.72 Haixin Road, Gulin Industry Zone, Dagang, Binhai New Dist, Tianjin P.R.CHINA

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## Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

TMQ

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### 1. Product and Company Identification

Material name	TMQ
CAS #	26780-96-1
Product code	-
Product use	Not available.
Manufacturer/Supplier	
Supplier(Manufacturer):	KEMAI Chemical Co., Ltd.
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### 2. Hazards identification

#### GHS classification

Physical hazards	Not classified	
Health hazards	Not classified	
Environmental hazards	Hazardous to the aquatic environment-chronic	Category 3

#### GHS label elements

Hazard Pictograms	No hazard pictogram is used.
Signal word	No signal word is used.
Hazard statement	Harmful to aquatic life with long lasting effects.

#### Precautionary statement

Prevention	Avoid release to the environment.
Response	Not application.
Storage	Not application.
Disposal	Dispose of contents/container in according with local regulation.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
1,2-Dihydro-2,2,4-trimethylquinolie (Dimer+Trimer+Tetramer)	oligomers 26780-96-1	≥40%
1,2-Dihydro-2,2,4-trimethylquinolie (others)	oligomers 26780-96-1	≤60%

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.
<b>Skin contact</b>	Wash skin with soap and water. Obtain medical attention if irritation persists.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, administer oxygen. Obtain medical attention if symptoms persist.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth with water. Give two glasses of milk or water at once. Obtain medical attention in all cases.

**Notes to physician**

Treat symptoms.

**5. Fire Fighting Measure**

**Flammable properties**

This product is non-flammable.

**Extinguishing media**

**Suitable extinguishing media**

Use dry powder, foam, water fog or carbon dioxide.

**Unsuitable extinguishing media**

Water spray.

**Firefighting equipment/instructions**

Wear self contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Irritating fumes, oxides of carbon, oxides of nitrogen.

**6. Accidental Release Measures**

**Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Methods for cleaning up**

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

**7. Handling and Storage**

**Handling**

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

**Storage**

Store in accordance with local regulations. Store in a dry place. Keep container tightly

closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure Controls / Personal Protection

Control parameters:

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA:

Not available.

#### EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
1,2-Dihydro-2,2,4-trimethylquinoline, oligomers	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
1,2-Dihydro-2,2,4-trimethylquinoline, oligomers	Not Available	Not Available

#### Exposure controls:

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Individual protection measures, such as personal protective equipment:

**Eye / face protection** Safety glasses with side shields.

**Skin protection** Wear protective clothing, such as long sleeves to minimize skin contact. Chemical resistant protective gloves.

**Respiratory protection** A respirator approved for dust/fume or mist protection is recommended for mists, sprays or aerosols. The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation.

**General hygiene considerations** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

## 9. Physical & Chemical Properties

### Appearance

**Physical state** Solid

**Form** Pastille

**Color** Orange transparent

**Odor** Not available

**Odor threshold** Not available

**pH** Not available

**Vapor pressure** < 0.00048 Pa (25°C)

**Vapor density** Not available

**Boiling point** Not available

**Melting point/Freezing point** 48°C

**Solubility (water)** Not available

<b>Specific gravity</b>	Not available
<b>Relative density</b>	1.04 (20°C)
<b>Density</b>	Not available
<b>Flash point</b>	Not available
<b>Flammability limits in air, upper, %by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available
<b>Other data</b>	
<b>Viscosity</b>	Not available
<b>Partition coefficient</b>	>= 1.2 <= 7.7
<b>Decomposition temperature</b>	ca. 280 °C

## 10. Chemical Stability & Reactivity Information

<b>Reactivity</b>	The product is stable.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Oxidizing agents, strong acids, strong bases.
<b>Hazardous decomposition products</b>	Irritating fumes, oxides of carbon, oxides of nitrogen.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution:

**Non-human toxicological data:** Not available

### Information on toxicological effects:

#### Acute toxicity:

<b>LD50(Oral, Rat):</b>	3190 mg/kg bw
<b>LD50(Dermal, Rabbit):</b>	ca. 5010 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## 12. Ecological Information

### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A

EL50	56 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** Not readily biodegradable.  
**Bioaccumulative potential:** TMQ can be considered as bioaccumulative.  
**Mobility in soil:** log Koc > 4.09  
**Results of PBT&vPvB assessment:** The substance is not PBT / vPvB.  
**Other adverse effects:** Harmful to aquatic life with long lasting effects.

### 13. Disposal Considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

#### DOT

**Basic shipping requirements:**  
**UN number** Not regulated  
**Proper shipping name** Not regulated  
**Hazard class** Not regulated  
**Packing group** Not regulated  
**Environmental hazards** No

#### IATA

**UN number** Not regulated  
**UN proper shipping name** Not regulated  
**Transport hazard class(es)** Not regulated  
**Packing group** Not regulated  
**Environmental hazards** No

#### IMDG

**UN number** Not regulated  
**UN proper shipping name** Not regulated  
  
**Transport hazard class(es)** Not regulated  
**Packing group** Not regulated  
**Environmental hazards** No

### 15. Regulatory Information

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

1,2-Dihydro-2,2,4-trimethylquinoline, oligomers (26780-96-1) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
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### 16. Other Information

**HMIS® ratings** Health:1  
Flammability:1  
Physical hazard: 0

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

03-18-2015