



# SAFETY DATA SHEET

Matoflex TMQ

MATERIÁL VEGYIPARI SZÖVETKEZET H-1239 Budapest, Ócsai út 10.

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**MATOFLEX TMQ** antioxidant for rubber industry

### 1.1. Manufacturer:

MATERIÁL VEGYIPARI SZÖVETKEZET

H-1239 BUDAPEST, Ócsai út 10.

Tel: (+36)(1)286-0363, (+36)(1)286-0365 Fax: (+36)(1)286-0364

Website: [www.material.hu](http://www.material.hu) E-mail: [info@material.hu](mailto:info@material.hu)

### 1.2. In case of emergency

**MEDICAL TOXICOLOGICAL INFORMATIVE SERVICE (ETTSZ)**

H-1096 Budapest, Nagyvárad tér 2.

(+36)-80-201-199, (+36)-1-476-6464

## 2. INFORMATION ON INGREDIENTS

Ingredients	CAS number	EU number	Concentration	Hazard symbol	Risk phrases
Polymerised 1,2-dihydro- 2,2,4-trimethyl- quinolyne /TMQ/ Scheme: $(C_{12}H_{15}N)_n$	26780-96-1	500-051-3	min. 97 %	-	R 52/53

## 3. CLASSIFICATION BY DANGER

The product is harmful to aquatic organisms.

In accordance with the directives 91/155/EC and 2001/58/EC there is no need to apply danger symbols, the R-phrase concerning the risk factors is the following:

R 52/53

## 4. FIRST AID MEASURES

### 4.1. General regulations:

Call physician in a doubtful situation or in case of persistent symptoms.

### 4.2 In case of eye contact:

When the substance has got into eyes, wash out immediately with plenty of water for at least 10-15 minutes, medical treatment is needed.

### 4.3 In case of skin contact:

Remove contaminated clothing immediately, wash affected skin surface with plenty of water. Don't use any solvents.

### 4.4 In case of ingestion:

In case of ingestion wash the mouth with plenty of water. Inducing vomiting is forbidden. Medical treatment is definitely needed.



#### 4.5 In case of inhalation:

Bring the injured person out of the danger area, keep him warm and at rest.

### 5. FIRE FIGHTING MEASURES

#### 5.1. Adequate extinguishing materials:

water spray, sand, foam-, dry chemical- and carbon-dioxide extinguisher

#### 5.2. Inadequate extinguishing materials:

heavy water jet

#### 5.3. Dangerous decomposition products:

carbon monoxide, carbon dioxide and nitric oxide (NO<sub>x</sub>)

#### 5.4. Special instructions in case of fire:

Pneumatic breathing-mask must be applied as a special protective equipment.

### 6. ACTIONS TO BE TAKEN IN CASE OF ACCIDENT

#### 6.1. Measures for personal protection:

The prescribed protective equipment must be used.

#### 6.2. Environmental protection:

Prevent spilled material running into sewers and surface water.

#### 6.3. Guide for cleaning:

Save the spilled material mechanically in a collector vessel. The dusty material can form explosive mixture with air.

### 7. HANDLING AND STORAGE

#### 7.1. HANDLING

##### 7.1.1. Handling in the course usage:

Prevent dust formation, if it happens, don't breathe the dusted air.

##### 7.1.2. Guide for preventing fire and explosion:

Product may form explosive mixture with air, proper ventilation should be provided in the area. The explosion concentration is unknown. The product should be kept away from heat and sources of ignition, smoking is forbidden.

#### 7.2. STORAGE

##### 7.2.1. Instructions for storage and package:

Store in a dry and cool place.

##### 7.2.2. Instructions for storing together with other materials:

None

##### 7.2.3. Other regulations concerning storage:

Storage in the open air is forbidden.

### 8. CONDITIONS OF WORKING WITHOUT ENDANGERING HEALTH

#### 8.1. General protective measures

Avoid contact with skin and eyes.

#### 8.2. Personal protective equipments:



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## 8.2.1 Hand protection

Usage of protective gloves recommended.

## 8.2.2. Eyes protection

Usage of protective goggles recommended.

## 8.2.3. Respiratory protection

Usage of mask against powder in case of dust formation necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	pastille	powder
Colour	fawn	yellow
Odour	characteristic	characteristic
Softening point	80-100 °C	100-108 °C
Open cup flash point	265 °C	265 °C
Ignition temperature	305 °C	305 °C
Density ( 20 °C)	1,05 -1,08 g/cm <sup>3</sup>	1,05 -1,08 g/cm <sup>3</sup>
Bulk density	600-680 kg/m <sup>3</sup>	300-350 kg/m <sup>3</sup>
Sieve residue ( 63 µm sieve)	-	max. 5 %
Solubility in water	insoluble	insoluble
Solubility in other organic solvents	dissolves with acetone and toluene	dissolves with acetone and toluene

## 10. STABILITY AND REACTIVITY

### 10.1. General data

The material is stable under normal circumstances.

### 10.2 Materials and conditions to avoid

The product can react with heavy oxidizing agents.

### 10.3. Dangerous decomposition products caused by heavy heat effect

carbon dioxide, nitric oxide (NO<sub>x</sub>)

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Acute toxicological data or information

Acute oral toxicity (LD<sub>50</sub> rat): >2000 mg / bodyweight kg

Acute dermal toxicity (LD<sub>50</sub> rabbit): >20000 mg / bodyweight kg

Not irritating by contacting with skin.

Getting into the eyes it may cause low irritation.

In some cases may cause oversensitivity.

### 11.2. Chronic toxicological information

The carcinogenic and mutagenic effect of the product is unknown.

## 12. ECOTOXICOLOGICAL INFORMATION

The product is harmful to aquatic organisms. Prevent the substance getting into gutter, sewage, or natural watercourse.

### 12.1 Acute toxicity for aquatic organisms

Fish LC<sub>50</sub>(92h): 50 mg/litre



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### 13. HANDLING AND DISPOSAL OF WASTE MATERIAL

In case of recycling a greater volume of waste, the manufacturer must be contacted.

For non-recyclable material and package the regulations of the European Catalogue of Wastes and the executory measures of the given country prevail.

EWC Code: 07 02 15

### 14. TRANSPORT INFORMATION

#### 14.1. Continental transport (ADR/RID and GGVS/GGVE)

Not registered among the above regulated materials

#### 14.2 Inland navigation (ADN/ADNR)

Not registered among the above regulated materials

#### 14.3. Maritime shipping (IMDG/GGVSee)

Not registered among the above regulated materials

#### 14.4. Air transport (IACO-TI and IATA-DGR)

Not regulated among the above regulated materials.

### 15. REGULATORY INFORMATION

Symbols: none

R-phrase: R 52/53

S-phrase: S 61

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Avoid release to the environment. Refer to special instructions / Safety data sheets

### 16. OTHER INFORMATION

The Safety Data Sheet is based on our best knowledge, in accordance with the directive 2001/58/EC. The user is responsible for applying the executory local regulations.

The published data are informative, not considered as part of any contract or regulation. The user is responsible for applying the executory regulations and provisions.