

**OCTOLITE TMQ-powder****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

OCTOLITE TMQ-powder**TMQ-powder**

Substance name Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer

REACH registration no. 01-2119486783-23

Identification numbers

CAS no. 26780-96-1

EC no. 500-051-3

1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses of the substance or mixture**

Industrial raw material

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Tiarco Chemical Europe GmbH

Am Gut Baarking 12

46395 Bocholt

Telephone no. +49 2871 23476-0

Fax no. +49 2871 23476-44

e-mail europeansales@trcc.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Product identifier**

26780-96-1 (Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer)

Hazard pictograms

-

Signal word

-

Hazard statement(s)

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

**OCTOLITE TMQ-powder**P273
P501Avoid release to the environment.
Dispose of contents/container to hazardous or special waste collection point.**2.3 Other hazards**

Dust can form an explosive mixture with air.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical characterization**

Substance name Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer

Identification numbers

CAS no. 26780-96-1

EC no. 500-051-3

Components to be mentioned according to Regulation (EU) No. 1907/2006, Annex II, section 3.1

Substance name	Additional information	
CAS / EC / Index / REACH no	Concentration	%
1,2-dihydro-2,2,4-trimethylquinoline	impurity	
147-47-7	< 3.00	wt%
205-688-8		
-		

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

Unsuitable extinguishing media

High power water jet

**OCTOLITE TMQ-powder****5.2 Special hazards arising from the substance or mixture**

Danger of dust explosion when in powder form. In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Use personal protective clothing. Keep people away and stay on the upwind side. Ensure adequate ventilation. Avoid dust formation. Keep away from ignition sources.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When collected, handle material as described under the section heading "Disposal considerations". Avoid raising dust.

6.4 Reference to other sections

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid dust formation.

General protective and hygiene measures

Keep separated from food-stuffs and feed-stocks. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Do not eat or drink during work - no smoking. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Avoid deposition of dust. Avoid formation of dust. Keep away from sources of ignition and flames. Take precautionary measures against static charges. No sparking tools should be used.

Dust explosion class

Capable of dust explosion

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed, cool and dry. Do not store outside.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	Dust		
List of approved workplace exposure limits (WELs) / EH40			

**OCTOLITE TMQ-powder**

Dust respirable	
WEL long-term (8-hr TWA reference period)	4 mg/m ³
Comments	see Definition 44 "Dust"
List of approved workplace exposure limits (WELs) / EH40	
Dust inhalable	
WEL long-term (8-hr TWA reference period)	10 mg/m ³
Comments	see Definition 44 "Dust"

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name	CAS / EC no	
	Route of exposure	Exposure time	Effect
	Value		
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer		
	26780-96-1 500-051-3		
	dermal	Long term (chronic)	systemic
			1.00 mg/kg/day
	inhalative	Long term (chronic)	systemic
			7.00 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no	
	Route of exposure	Exposure time	Effect
	Value		
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer		
	26780-96-1 500-051-3		
	oral	Long term (chronic)	systemic
			0.60 mg/kg/day
	dermal	Long term (chronic)	systemic
			0.60 mg/kg/day
	inhalative	Long term (chronic)	systemic
			1.80 mg/m ³

PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer		
	26780-96-1 500-051-3		
	water	fresh water	0.056 mg/L
	water	marine water	0.006 mg/L
	water	fresh water sediment	21.00 mg/kg dry weight
	water	marine water sediment	2.10 mg/kg dry weight
	soil	-	4.20 mg/kg dry weight
	sewage treatment plant	-	100.00 mg/L
	secondary poisoning	-	8.00 mg/kg food

8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. Dust mask

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material

In case of short-term contact / splash protection:

Appropriate Material

polyvinyl chloride (PVC), nitrile butadiene rubber (NBR), polychloroprene (CR)

Breakthrough time

< 1 h

Other

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Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation	
solid	
Form/Colour	
Powder	
yellow to brown	
Odour	
characteristic	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
Value	48 °C
Source	supplier
Decomposition temperature	
Value	> 280 °C
Source	supplier
Flash point	
Value	180 °C
Method	closed cup
Source	supplier
Ignition temperature	
No data available	
Explosive properties	
Dust may form explosive mixture in air.	
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
Value	< 0.0001 hPa
Reference temperature	25 °C
Source	supplier
Relative vapour density	
No data available	
Relative density	
No data available	
Density	
Value	1.04 kg/l
Reference temperature	20 °C
Source	supplier
Solubility in water	
Value	0.024 g/l
Source	supplier

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Solubility	
No data available	

Soluble in	
Acetone; Toluene	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
log Pow		5.8	
Reference temperature with reference to Method		25	°C
Source		pH: 6.3 OECD 117 ECHA	

Viscosity	
No data available	

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Stable under recommended storage and handling conditions (See section 7). Dust can form an explosive mixture with air.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Static discharges. Avoid raising dust.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
LD50		3190	mg/kg bodyweight
Species		rat	
Source		ECHA	

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
LD50		> 5010	mg/kg bodyweight
Species		rabbit	
Source		ECHA	

Acute inhalational toxicity	
No data available	

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Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Chinese hamster V79 cells	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster V79 cells	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on the available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on the available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Route of exposure		oral	
NOEL		120	mg/kg bw/d
Type of examination		Toxicity study	
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Route of exposure		oral	
Type of examination		Toxicity study	
Species		rat	

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Method	OECD 453
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Route of exposure		oral	
NOAEL		appr. 11.8	mg/kg bw/d
Species		rat	
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Contact with the skin and eyes may cause mechanical irritation.	

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)	
No data available	

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
EL50		56	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		EU C.2	
Source		ECHA	

Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)	
No data available	

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
EC50		>	10000 mg/l
Duration of exposure		3	h
Species		activated sludge	
Method		OECD 209	
Source		ECHA	

**OCTOLITE TMQ-powder****12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
Type		aerobic biodegradation	
Value		0	%
Duration		28	day(s)
Method		440/2008/EC C.4.-E	
Source		ECHA	
Evaluation		not degradable	

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Quinoline, 1,2-dihydro-2,2,4-trimethyl-, homopolymer	26780-96-1	500-051-3
log Pow		5.8	
Reference temperature		25	°C
with reference to		pH: 6.3	
Method		OECD 117	
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
dispose of in accordance with local regulation.

Packaging

Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

**OCTOLITE TMQ-powder****14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part 1 or 2 of Annex I

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information**Further information**

The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

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Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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