

# SAFETY DATA SHEET



TCD Alcohol M  
10670

Version / Revision  
Supersedes Version

3.01  
3.00\*\*\*

Revision Date  
Issuing date

01-Mar-2021  
01-Mar-2021

## SECTION 1: Identification of the substance / mixture and of the company / undertaking

### 1.1. Product identifier

Identification of the  
substance/preparation

# TCD Alcohol M

Chemical Name  
CAS-No  
EC No.

Octahydro-4,7-methano-1H-indene-5-methanol  
57526-50-8  
260-789-4

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

Use of the Substance /  
Preparation

Intermediate.

Uses advised against

None

### 1.3. Details of the supplier of the safety data sheet

Company/Undertaking  
Identification

**OQ Chemicals GmbH**  
Rheinpromenade 4A  
D-40789 Monheim  
Germany

Product Information

Product Stewardship  
FAX: +49 (0)208 693 2053  
email: sc.psq@oq.com

### 1.4. Emergency telephone number

Emergency telephone number

+44 (0) 1235 239 670 (UK) available 24/7  
NCEC +1 202 464 2554 available 24/7

Local emergency telephone  
number

+61 2 8014 4558 (Australia)  
18000 74234 (Australia toll-free number)  
+64 9 929 1483 (New Zealand)  
0800 446 881 (New Zealand toll-free number)  
+65 3158 1195 (Sri Lanka)  
007 803 011 0293 (Indonesia toll-free number)  
+60 3 6207 4347 (Malaysia)  
001 800 120 666 751 (Thailand toll-free number)  
+65 3158 1200 (Bangladesh)  
+63 2 8231 2149 (Philippines)  
+84 28 4458 2388 (Vietnam)  
+65 3165 2217 (Singapore)  
available 24/7

## SECTION 2: Hazards identification

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## Europe

### 2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Serious eye damage/eye irritation Category 2, H319

#### Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

### 2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

#### Hazard pictograms



#### Signal word

#### Warning

#### Hazard statements

H319: Causes serious eye irritation.

#### Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.

### 2.3. Other hazards

None known

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## USA

### 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Serious eye damage/eye irritation Category 2A, H319

#### OSHA Specified Hazards

Not applicable.

### 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

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## Hazard symbol(s)



### Signal word

### Warning

### Hazard statements

H319: Causes serious eye irritation.

### Precautionary statements

### Prevention

P264: Wash hands thoroughly after handling.  
P280: Wear eye protection/face protection.

### Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.

## 2.3. Other hazards

None known

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
Octahydro-4,7-methano-1H-indene-5-methanol	57526-50-8	01-2120767048-48	Eye Irrit. 2; H319	> 95

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Skin

Wash off immediately with plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

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## Main symptoms

None known.

## Special hazard

Lung irritation.

## 4.3. Indication of any immediate medical attention and special treatment needed

### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, irrigate the stomach using activated charcoal.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).



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## 6.3. Methods and material for containment and cleaning up

### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

### Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

strong oxidizing agents

### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

#### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 25 and 54 °C (80 and 130 °F).

#### Temperature class

T3

### 7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

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## Exposure limits European Union

No exposure limits established

## Exposure limits Germany

No exposure limits established.

## Exposure limits United States of America

No exposure limits established regarding ACGIH, OSHA Z-1 and OSHA Z-2.

## 8.2. Exposure controls

### Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

### Personal protective equipment

#### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

#### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	nitrile rubber
<b>Reference substance</b>	Di-(2-ethylhexyl)-phthalate
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0,55 mm
<b>Break through time</b>	> 480 min
<b>Suitable material</b>	polyvinylchloride
<b>Reference substance</b>	Di-(2-ethylhexyl)-phthalate
<b>Evaluation</b>	Information derived from practical experience
<b>Glove thickness</b>	approx 0,8 mm

#### Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

#### Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. If recycling is not practicable, dispose of in compliance with local

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regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless
Odour	mild
Odour threshold	No data available
pH	5,87 - 6,12 (0,4 g/l in water @ 20 °C (68 °F)) OECD 105***
Melting point/range	-31 °C (Pour point)
Boiling point/range	266 °C @ 1013 hPa
Flash point	132 °C @ 1013 hPa***
Method	ISO 2719
Evaporation rate	No data available
Flammability (solid, gas)	Does not apply, the substance is a liquid
Lower explosion limit	~ 0,8 Vol %
Upper explosion limit	No data available

#### Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
< 1	< 0,1	< 0,001	20	68	DIN EN 13016-2
30	3	0,03	120	248	DIN EN 13016-2

Vapour density No data available

#### Relative density

Values	@ °C	@ °F	Method
1,0517	20	68	DIN 51757

Solubility 0,4 g/l @ 20 °C, in water, OECD 105

log Pow 3,7 - 4,2 @ 25 °C (77 °F)\*\*\*

Autoignition temperature 250 °C @ 1002 hPa\*\*\*

Method DIN 51794

Decomposition temperature No data available

Viscosity 200,48 mPa\*s @ 40 °C

Method ASTM D445

Oxidizing properties Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

Explosive properties Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

### 9.2. Other information

Molecular weight	166,26
Molecular formula	C11 H18 O
Surface tension	52,3 mN/m (0,36 g/l @ 20°C (68°F))***

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

## 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

## 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

## 10.5. Incompatible materials

strong oxidizing agents.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Eye contact, Skin contact, Inhalation, Ingestion

<b>Acute toxicity</b>				
<b>Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	2270 - 3350 mg/kg	rat, male/female	OECD 401

#### **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

##### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity

For acute dermal toxicity, no data are available

For acute inhalation toxicity, no data are available

<b>Irritation and corrosion</b>				
<b>Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	Mild skin irritation***	OECD 404	4h***
Eyes	rabbit	Moderate eye irritation***	OECD 405	24h***

#### **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

##### **Assessment**

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

## Sensitization



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<b>Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	50 %, in Petrolatum***

## **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

### **Subacute, subchronic and prolonged toxicity**

<b>Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)</b>				
Type	Dose	Species	Method	
Subacute toxicity	no data available			
Subchronic toxicity	no data available			
Chronic toxicity	no data available			

## **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

### **Assessment**

Due to lack of data, a classification is not possible for:

STOT RE

### **Carcinogenicity, Mutagenicity, Reproductive toxicity**

<b>Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)</b>					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium Escherichia coli***	negative	OECD 471 (Ames)	In vitro study
Carcinogenicity	No data available				
Reproductive toxicity	No data available				

## **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests did not show mutagenic effects

## **Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

### **Target Organ Systemic Toxicant - Single exposure**

Due to lack of data, a classification is not possible for:

STOT SE

### **Target Organ Systemic Toxicant - Repeated exposure**

Due to lack of data, a classification is not possible for:

STOT RE

### **Aspiration toxicity**

Due to the viscosity, this product does not present an aspiration hazard

### **Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

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## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

**Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

#### Biodegradation

Not readily biodegradable, activated sludge (domestic), non-adapted, aerobic, OECD 301 F.\*\*\*

#### Abiotic Degradation

**Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)**

Type	Result	Method
Hydrolysis	No data available	
Photolysis	No data available	

### 12.3. Bioaccumulative potential

**Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)**

Type	Result	Method
log Pow	3,7 - 4,2 @ 25 °C (77 °F)***	OECD 117
BCF	No data available	

### 12.4. Mobility in soil

**Octahydro-4,7-methano-1H-indene-5-methanol (57526-50-8)**

Type	Result	Method
Surface tension	52,3 mN/m (0,36 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	no data available	
Distribution to environmental compartments	no data available	

### 12.5. Results of PBT and vPvB assessment

**Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

### 12.6. Other adverse effects

**Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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## Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

## Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### Section 14.1 - 14.6

ICAO-TI / IATA-DGR Not restricted

IMDG Not restricted

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** not applicable

ADR/RID Not restricted

## SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI not listed

DI 2012/18/EU (Seveso III)  
Category not subject

DI 1999/13/EC (VOC Guideline)

Component	Status
Octahydro-4,7-methano-1H-indene-5-methanol CAS: 57526-50-8	not subject

### International Inventories

**Octahydro-4,7-methano-1H-indene-5-methanol, CAS: 57526-50-8**

AICS (AU)  
DSL (CA)  
EC-No. 2607894 (EU)  
TCSI (TW)

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## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3

H319: Causes serious eye irritation.

### Abbreviations

A table of terms and abbreviations can be found under the following link:

[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

### Training advice

For effective first-aid, special training / education is needed.

### Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

### Further information for the safety data sheet

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage ([www.chemicals.oq.com](http://www.chemicals.oq.com)).

The annex is not required because the substance is registered as an intermediate under REACH

### Disclaimer

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**