

SAFETY DATA SHEET



TCD Alcohol M
10670

Version / Revision
Supersedes Version

2
2.00***

Revision Date
Issuing date

27-May-2015
14-Oct-2022

SECTION 1: Identification

1.1. Product identifier

Identification of the
substance/preparation

TCD Alcohol M

Chemical Name
CAS-No

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

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

Use of the Substance /
Preparation
Uses advised against

Intermediate***
None

1.3. Details of the supplier of the safety data sheet

Supplier

OQ Chemicals Corporation
15375 Memorial Drive
West Memorial Place I
Suite 300
Houston, TX 77079
USA
Phone +1 346 378 7300

Product Information

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

1.4. Emergency telephone number

Emergency telephone number NCEC +1 202 464 2554
available 24/7

SECTION 2: Hazards identification

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.

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2.2. Label elements

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

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

Skin

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

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Eyes

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

Ingestion

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

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

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 (CO₂), 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 (CO₂)

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.

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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).

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

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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).

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

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.

Individual protection measures, such as 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.

Suitable material	nitrile rubber
Reference substance	Di-(2-ethylhexyl)-phthalate
Evaluation	according to EN 374: level 6
Glove thickness	approx 0,55 mm
Break through time	> 480 min

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Suitable material	polyvinylchloride
Reference substance	Di-(2-ethylhexyl)-phthalate
Evaluation	Information derived from practical experience
Glove thickness	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 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/freezing point	-23,8 °F (-31 °C) (Pour point)
Method	DIN ISO 3016***
Boiling point or initial boiling point and boiling range	510,8 °F (266 °C) @ 1 atm (101,3 kPa)
Method	OECD 103***
Flash point	269,6 °F (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***

Relative vapour density No data available

Density and/or relative density

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

Solubility 0,4 g/l @ 20 °C (68 °F), in water, OECD 105***

Partition coefficient n-octanol/water (log value) 3,7 - 4,2 @ 25 °C (77 °F)***

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Autoignition temperature	482 °F (250 °C) @ 1002 hPa***
Method	DIN 51794
Decomposition temperature	No data available
Viscosity	200,48 mPa*s @ 104 °F (40 °C)
Method	ASTM D445

9.2. Other information

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

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

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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***

Acute toxicity

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

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***

Irritation and corrosion

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

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

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

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

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

Type	Dose	Species	Method	
Subacute toxicity***	no data available***			

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

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>.***

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

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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

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.

Uncleaned empty packaging

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

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SECTION 14: Transport information

Section 14.1 - 14.6 ***

D.O.T. (49CFR) Not restricted

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

SECTION 15: Regulatory information

Federal and State Regulations

Components contained in this product are not listed in federal or state regulations monitored for this MSDS. Please refer to all applicable state and federal regulations directly.***

Federal Regulations

This product is not on the TSCA inventory. Product may only be used in the USA in compliance with applicable exemptions***

International Inventories

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

AICS (AU)***

DSL (CA)***

EC-No. 2607894 (EU)***

TCSI (TW)***

SECTION 16: Other information

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Hazard Rating Systems

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NFPA (National Fire Protection Association)

Health Hazard	2
Fire Hazard	1
Reactivity	0

HMIS (Hazardous Material Information System)

Health Hazard	2***
Flammability	1
Physical Hazard	0

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).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

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 Chemicals 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