

# Safety Data Sheet (-)-Menthol



# **Section 1: Chemical Product and Company Identification**

Product Name: (-)-Menthol Contact Information:

Catalog Codes: 580

CAS#: 2216-51-5 Email: info@drm-chem.com

RTECS: - Address: #7, Afshar javan Alley,

Sohrevardi

TSCA: - St, Tehran, Iran

**Synonym: - post code:** 1551818111

Chemical Name: (-)-Menthol Tehran Sales: +98 21 88177760

Chemical Formula: C<sub>10</sub>H<sub>20</sub>O Order Online: Drm-chem.com

# **Section 2: Composition and Information on Ingredients**

**Composition:** 

Name CAS # % by Weight

(-)-Menthol 2216-51-5 <= 100 %

**Toxicological Data on Ingredients:** 

#### **Section 3: Hazards Identification**

#### 3.1 Classification of the substance or mixture

Skin irritation, (Category 2) Eye irritation, (Category 2)

H319: Causes serious eye irritation.

H315: Causes skin irritation.

## 3.2 Label elements

Pictogram

Signal Word

**Hazard Statements** 

H315

H319

**Precautionary Statements** 

P264

P280

P302 + P352

P305 + P351 + P338

P332 + P313

P337 + P313

Supplemental Hazard statements

# $\Diamond$

Warning

Causes skin irritation.

Causes serious eye irritation.

Wash skin thoroughly after handling.

Wear protective gloves/ protective clothing/ eye

protection/ face protection.

IF ON SKIN: Wash with plenty of water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/

attention.

If eye irritation persists: Get medical advice/

attention.

none

# Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Hazard Statements

**Precautionary Statements** 

Supplemental Hazard Statements



Warning

none

none

none

## 3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **Section 4: First Aid Measures**

# 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 3.2) and/or in section 11

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

No data available

# **Section 5: Fire and Explosion Data**

# 5.1 Extinguishing media

# Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### Section 6: Accidental Release Measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

# Section 7: Handling and Storage

# 7.1 Precautions for safe handling

For precautions see section 3.2.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

#### Storage class

Storage class (TRGS 510): 11: Combustible Solids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **Section 8: Exposure Controls/Personal Protection**

# 8.1 Control parameters

Ingredients with workplace control parameters

#### 8.2 Exposure controls

Personal protective equipment

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and

for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

# **Body Protection** protective clothing

# Respiratory protection

Recommended Filter type: Filter A-(P2).

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

# Control of environmental exposure

Do not let product enter drains.

# Section 9: Physical and Chemical Properties

Physical state solid Color white

Odor characteristic, aromatic pH No data available

Melting point/freezing point Melting point/range: > 41,2 - 41,7 °C at 1.013

hPa - OECD Test Guideline 102

Initial boiling point 212 °C at 1.013,25 hPa

and boiling range

Flash point 94 °C - closed cup - ISO 3679

**Decomposition temperature**No data available

Flammability (solid, No data available

gas)

**Upper/lower** No data available

flammability or explosive limits

**Vapor pressure** 0,19 hPa at 25 °C - Regulation (EC) No.

440/2008, Annex, A.4

**Density** 0,890 g/cm3 at 20 °C

Relative density

No data available

Water solubility 0,397 g/l at 20 °C - OECD Test Guideline 105-

partly soluble

**Partition coefficient:** log Pow: 3,15 at 25 °C - Regulation (EC) No. **n-octanol/water** 440/2008, Annex, A.8 - Bioaccumulation is not

expected.

**Autoignition** No data available

Temperature

**Decomposition** No data available

**Temperature** 

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties No data available

Oxidizing properties None

Other safety information

Bulk density ca.450 kg/m3

# Section 10: Stability and Reactivity Data

# 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

# 10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

#### 10.4 Conditions to avoid

Strong heating.

# 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **Section 11: Toxicological Information**

# 11.1 Information on toxicological effects

#### **Mixture**

# **Acute toxicity**

Oral: No data available

LC50 Inhalation - Rat - male and female - 4 h - 5.289 mg/l - aerosol

(OECD Test Guideline 403)
Dermal: No data available

# Skin corrosion/irritation

Skin – Rabbit

Result: irritating - 4 h

(OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes – Rabbit

Result: irritating

(OECD Test Guideline 405)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

# Germ cell mutagenicity

No data available

# Carcinogenicity

No data available

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

# 11.2 Additional Information

**Endocrine disrupting properties** 

**Product:** 

Assessment: The substance/mixture does not contain

components considered to have endocrine

disrupting properties according to REACH Article

57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Section 12: Ecological Information**

# 12.1 Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 15,6

mg/l - 96 h (Directive 67/548/EEC, Annex V,

C.1.)

Toxicity to daphnia

and other aquatic invertebrates (Chronic

static test EC50 - Daphnia magna (Water flea) - 26,6 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus

(green algae) - 21,4 mg/l - 72 h (OECD Test

Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - 237 mg/l - 3

h (OECD Test Guideline 209)

# 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 92 % -

Readily biodegradable. (OECD Test Guideline

301D)

Theoretical oxygen demand 2.970 mg/g Remarks: (Lit.)

12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Endocrine disrupting properties

#### **Product:**

**Assessment:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# 12.7 Other adverse effects

No data available

# **Section 13: Disposal Considerations**

#### 13.1 Waste treatment methods

No data available

Section 14:	ransport	intormation
•		•

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

No data available

#### Further information

Not classified as dangerous in the meaning of transport regulations.

# **Section 15: Other Regulatory Information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

# Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

# 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# **Section 16: Other Information**

References: Not available

Other Special Considerations: Not available

Created: /08/2025

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