

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



87108 Menthol, L-Menthol

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Revised edition: 14.09.2020

Version: 2.0

Printed: 26.07.2024

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Menthol, L-Menthol

Article No.: 87108

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

*Aroma
Extracting agent
Intermediate product*

Uses advised against:

none

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

*Eye irritation, hazard category 2
Skin irritation, hazard category 2*

H315	Causes skin irritation.
Cat.: 2	
H319	Causes serious eye irritation.
Cat.: 2	

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Hazard designation:



GHS07-1

Signal word:

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Warning

Hazard designation:

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety designation:

P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P332+P313	If skin irritation occurs: Get medical attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Menthol (H315-319); REACH Reg.-Nr. 01-2119458866-21	100 %	CAS-Nr: 2216-51-5 EINECS-Nr: 218-690-9 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air.
In case of complaints consult a physician.

After skin contact:

Wash off immediately with soap and plenty of water.
Wash contaminated clothing before reuse.

After eye contact:

Remove contact lens.
Rinse open eyes with plenty of water for at least 15 minutes.
Consult physician.

After ingestion:

Rinse mouth thoroughly with plenty of water and drink plenty of water. Consult a physician.
Never give anything by mouth to an unconscious person. If

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unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Irritates eyes, skin and respiratory system.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: hazardous gases/vapors may be released.

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Wear self-contained respiratory protective device.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Do not inhale dust. Avoid formation of dust.

Keep unprotected persons out of danger zone.

Keep away from sources of ignition. No smoking.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

Do not allow entering sewage system.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable container for disposal. Rinse spill area. Avoid dust formation.

6.4. Reference to other Sections

See Section 13 for information on disposal.

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7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Do not swallow or inhale.

Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a dry and cool room.
Store at temperatures between 10 and 30°C.*

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion protection:

Keep away from sources of heat and ignition - do not smoke.

Storage class:

10-13 (TRSG 510)

Further Information:

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

*19 mg/kg/d (worker, skin contact, long-term exposition - systemic effects)
132 mg/m³ (worker, inhalation, long-term exposition - systemic effects)
10 mg/m³ (worker, inhalation, long and short-term exposure - local effects)
9.4 mg/kg/d (consumer, swallowing/skin contact, long-term exposition - systemic effects)
33 mg/m³ (consumer, inhalation, long-term exposure - systemic effects)*

Predicted No-Effect Concentration (PNEC):

*Fresh water: 15.6 µg/l
Sea water: 1.56 µg/l
Fresh water sediment: 289 mg/kg*

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Sea water sediment: 28.9 mg/kg
Intermittent release: 156 µg/l
Sewage treatment system (STP): 2.37 mg/l
Secondary poisoning (food): 83.3 mg/kg
Soil: 48.4 µg/kg

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

Remove contaminated clothing. Wash hands after work.

Respiratory protection:

In case of formation of dust.

Hand protection:

Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.

Protective glove material:

Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: solid

Color: colorless

Odor: characteristic

Odor threshold: no information available

pH-Value: not available

Melting temperature: 41.7°C

Boiling temperature: 218.94°C

Flash point: > 94°C

Evaporation rate: No information available.

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Flammability (solid, gas):

not available

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

19 Pa (25°C)

Vapor density:

No information available.

Density:

0.89 g/cm³ (20°C)

Solubility in water:

partly soluble (20°C)

Coefficient of variation (n-Octanol/Water):

3.15 logPOW (25°C)

Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

not available

Explosive properties:

not available

Oxidizing properties:

no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

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10.3. Possibility of Hazardous Reactions

No information available.

10.4. Conditions to Avoid

Conditions to avoid:

No further information available.

Thermal decomposition:

Avoid heat.

10.5. Incompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral: > 2000 mg/kg (rat; ECHA)

LD50, dermal: > 5000 mg/kg (rabbit; OECD 402)

LC50, inhalation: 5.289 mg/l (4h, rat; OECD 403)

Primary effects

Irritant effect on skin:

Irritating (rabbit; OECD 404)

Irritant effect on eyes:

Slight irritant effect (rabbit; OECD 405).

Inhalation:

Mucosal irritations.

Ingestion:

Gastric spasms, nausea, vomiting.

Sensitization:

Non sensitizing (dermal, guinea pig; OECD 429).

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Aspiration hazard:

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No information available.

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

LC50: 16 mg/l (96h, Danio rerio; 440/2008/EC C.1.)

Daphnia toxicity:

EC50: 26.6 mg/l (48h, Daphnia magna; 440/2008/EC C.2.)

Bacteria toxicity:

LC50: 237 mg/l (96h, active sludge; OECD 209)

Algae toxicity:

EC50: 21.4 mg/l (72h, Desmodesmus subspicatus; 440/2008/EC C.3)

NOEC: 9..65 mg/l (72h, Desmodesmus subspicatus; 440/2008/EC C.3)

12.2. Persistency and Degradability

Theoretical oxygen demand (ThOC): 77 - 93 % (21d; OECD 301D); readily biodegradable

12.3. Bioaccumulation

*Bioconcentration factor (BCF): 15 (Cyprinus carpio; OECD 305C)
No bioaccumulation expected ($\log P(o/w) > 3$).*

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not classified as PBT substance / Not classified as a vPvB substance.

12.6. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

*Dispose of according to official national and local regulations.
Must not be disposed together with household garbage.*

European Waste Code (EWC):

The waste code must be determined together with the regional

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disposal service.

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

15. Regulatory Information

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15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15. 3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.