# SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product identifier**

**Product code:** ME110  
**Product Name:** L-MENTHOL, CRYSTAL, USP

**Other means of identification**

**Synonyms:**
1. (1alpha,2beta,5alpha)-5-Methyl-2-(1-methylethyl)cyclohexanol
2. (-)-Menthol
3. (-)-Methyl alcohol; 1R,3R,4S)-(-)-Menthol
4. (1R-(1-alpha,2-beta,5-alpha))-5-Methyl-2-(1-methylethyl)cyclohexanol
5. Cyclohexanol, 5-methyl-2(1-methylethyl)-,(1R,2S,5R)-
6. Cyclohexanol1,
7. 5-methyl-2-(methylethyl)-,[(1R-(1.alpha,.2.beta,.5.alpha.))]-
8. (-)-trans-p-Methan-cis-3-ol; 1R-(1alpha,2beta,5alpha).-)
9. (R)-(R)-Menthol; 1R-Menthol
10. I-Mentho;
11. Levomenthol

**CAS #:** 2216-51-5  
**RTECS #:** OTO700000  
**Cl#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Medication. In chewing gum.  
**Uses advised against:** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** [https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number:** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Label elements**

**Product code:** ME110  
**Product name:** L-MENTHOL, CRYSTAL, USP
Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful if swallowed

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
<td>100</td>
</tr>
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</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and
shoes. Get medical attention if irritation develops.

**Eye Contact:**
Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.

**Inhalation:**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms**
- Causes serious eye irritation
- Causes skin irritation
- Irritating to respiratory system

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:**
Treat symptomatically.

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

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### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**
Dry chemical. Carbon dioxide (CO2). Water spray, mist, or foam.

**Unsuitable Extinguishing Media:**
No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**
Carbon Monoxide, Carbon Dioxide.

**Specific hazards:**
No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:**
No information available.

**Special Protective Equipment for Firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

Environmental precautions: Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials. Remove all sources of ignition.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents
Mineral acids
Phenol
beta-naphthol
Resorcinol
thymol
Potassium permanganate
chromium trioxide
Pyrogallol
butylchloral hydrate
choral hydrate
camphor
exalgine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: ME110
Product name: L-MENTHOL, CRYSTAL, USP
United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

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<th>Components</th>
<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

**Eye protection:** Safety glasses with side-shields

**Skin and body protection:** Long sleeved clothing

Gloves

**Respiratory protection:** Effective dust mask.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Solid</th>
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<tbody>
<tr>
<td>Appearance:</td>
<td>Crystals.</td>
</tr>
<tr>
<td>Color:</td>
<td>White.</td>
</tr>
<tr>
<td>Odor:</td>
<td>Peppermint like.</td>
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<tr>
<td>Taste:</td>
<td>Peppermint.</td>
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<tr>
<td>Molecular/Formula weight:</td>
<td>156.27 g/mol</td>
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<tr>
<td>Flammability:</td>
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<td>Formula:</td>
<td>C10-H20-O</td>
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<td>Flashpoint (°C/°F):</td>
<td>93-101°C/199-214°F</td>
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<td>Autoignition Temperature (°C/°F):</td>
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<td>Lower Explosion Limit (%):</td>
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<td>Decomposition temperature(°C/°F):</td>
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<td>Melting point/range(°C/°F):</td>
<td>41-44°C/105.8-111.2°F</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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</table>

Product code: ME110

Product name: L-MENTHOL, CRYSTAL, USP
### 10. STABILITY AND REACTIVITY

**Reactivity**
Reactive with oxidizing agents
Reactive with phenol, \( \beta \)-naphthol, resorcinol, thymol, potassium permanganate, chromium trioxide, pyrogallol, butylchloral hydrate, camphor, choral hydrate, exalgine, betanaphthol

**Chemical stability**
Stability: Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:**
- Oxidizing agents
- Mineral acids
- Phenol
- \( \beta \)-naphthol
- Resorcinol
- Thymol
- Potassium permanganate
- Chromium trioxide
- Pyrogallol
- Butylchloral hydrate
- Choral hydrate
- Camphor
- Exalgine

**Hazardous decomposition products:** Carbon oxides.

**Other Information**
Corrosivity: No information available

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**Product code:** ME110  **Product name:** L-MENTHOL, CRYSTAL, USP
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Ingestion.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LD50/dermal/rat</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
<th>Other LD50 or LC50 information</th>
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</thead>
<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
<td>3300 mg/kg Oral LD50 Rat</td>
<td>3400 mg/kg Oral LD50 Mouse</td>
<td>&gt; 5000 mg/kg Dermal LD50 Rabbit</td>
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<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
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</tbody>
</table>

Product Information

<table>
<thead>
<tr>
<th>LD50/oral/rat</th>
<th>VALUE- Acute Tox Oral = 3300  mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/mouse</td>
<td>Value - Acute Tox Oral = 3400  mg/kg</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>VALUE- Acute Tox Dermal = &gt; 5000  mg/kg</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>VALUE - Acute Tox Dermal = No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>VALUE-Vapor = No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE-Gas = No information available</td>
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<tr>
<td></td>
<td>VALUE-Dust/Mist = No information available</td>
</tr>
<tr>
<td>LC50/Inhalation/mouse</td>
<td>VALUE-Vapor = No information available</td>
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<tr>
<td></td>
<td>VALUE - Gas = No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Dust/Mist = No information available</td>
</tr>
</tbody>
</table>

Symptoms

Skin Contact: May cause mild to moderate skin irritation. It can be absorbed through the skin.

Eye Contact: Causes serious eye irritation. Moderately irritating to the eyes.

Inhalation: Irritating to respiratory system.

Ingestion: May be harmful if swallowed.

Aspiration hazard: No information available.

Product code: ME110  Product name: L-MENTHOL, CRYSTAL, USP
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
No information available.

Sensitization:
No information available.

Mutagenic Effects:
May affect genetic material

Carcinogenic effects:
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity
No data is available

Reproductive Effects:
No information available

Developmental Effects:
No information available

Teratogenic Effects:
No information available

Specific Target Organ Toxicity

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organs:
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

L-Menthol - 2216-51-5

Freshwater Fish Species Data: 18.9 mg/L LC50 Pimephales promelas 96 h flow-through 1

Persistence and degradability: No information available

Bioaccumulative potential: Indication of bioaccumulation.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Product code: ME110
Product name: L-MENTHOL, CRYSTAL, USP
Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Class: No information available
- Packing group: No information available
- Emergency Response Guide Number: No information available
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available
- Special Provisions: No Information available
- Symbol(s): No information available
- Description: No information available

TDG (Canada)
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No Information available
- Description: No information available

ADR
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Packing Group: No information available
- Subsidiary Risk: No information available

IMO / IMDG
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No information available

RID
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available

ICAO
- UN-No: Not Regulated
- Proper Shipping Name: No information available

Product code: ME110          Product name: L-MENTHOL, CRYSTAL, USP
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
<td>Present(ACTIVE)</td>
<td>Present KE-24409</td>
<td>Present (3)-2333</td>
<td>Present</td>
<td>Present</td>
<td>Present 218-690-9</td>
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</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity:</th>
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<tbody>
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<td>2216-51-5</td>
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CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
<td>L-Menthol</td>
<td>2216-51-5</td>
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U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) TSCA 8(d) - Health and Safety Reporting |
|------------|---------|-------------------------------------------------------------|--------------------------------------------------|
| L-Menthol  | 2216-51-5 | Not Applicable | Not Applicable |

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:
The WHMIS 2015 classification of this product has not been validated or reviewed yet.
Canada Hazardous Products Regulation: This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

WHMIS 1988 Hazard Class
D2B Toxic materials

Canada Controlled Products Regulation: This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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<table>
<thead>
<tr>
<th>EU Classification</th>
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<tr>
<td>EU GHS - SV - CLP 1272/2008</td>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<td>2216-51-5</td>
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</tbody>
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<table>
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<tr>
<th>EU - CLP (1272/2008)</th>
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</thead>
<tbody>
<tr>
<td>R-phrase(s)</td>
</tr>
<tr>
<td>R36 - Irritating to eyes.</td>
</tr>
</tbody>
</table>

| S-phrase(s) |
| S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>2216-51-5</td>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant.

\[
\text{Xi}
\]

16. OTHER INFORMATION

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<th>Preparation Date:</th>
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<tbody>
<tr>
<td>Revision Date:</td>
<td>6/4/2018</td>
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<tr>
<td>Prepared by:</td>
<td>Sonia Owen</td>
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</table>

Product code: ME110 Product name: L-MENTHOL, CRYSTAL, USP
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End of Safety Data Sheet