



synerzine™

**SAFETY DATA SHEET****L-Menthyl lactate**

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	<i>L-Menthyl lactate</i>
Product number	<i>W1398</i>
Synonyms; trade names	<i>[(1R,2S,5R)-5-methyl-2-propan-2-ylcyclohexyl] 2-hydroxypropanoate</i>
CAS number	<i>59259-38-0</i>
EC number	<i>261-678-3</i>

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

Identified uses	<i>Laboratory chemicals, Manufacture of substances.</i>
Uses advised against	<i>No specific uses advised against are identified.</i>

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

Supplier	<i>Synerzine 5340 Highway 42 Ellenwood, GA 30294 United States +1 404-524-6744 info@synerzine.com</i>
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Contact person	<i>James Elliott</i>
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**1.4. Emergency telephone number**

Emergency telephone	<i>INFOTRAC +1 352-323-3500 (Reference Contract # 102471)</i>
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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification (EC 1272/2008)	
Physical hazards	<i>Not Classified</i>
Health hazards	<i>Not Classified</i>
Environmental hazards	<i>Not Classified</i>

**2.2. Label elements**

EC number	<i>261-678-3</i>
Hazard statements	<i>NC Not Classified</i>

**2.3. Other hazards**

*This substance is not classified as PBT or vPvB according to current EU criteria.*

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Product name	<i>L-Menthyl lactate</i>
CAS number	<i>59259-38-0</i>

## L-Menthyl lactate

EC number	261-678-3
Composition comments	Named component present at ≤100%.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Remove affected person from source of contamination. Rinse immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

## L-Menthyl lactate

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

**Personal precautions** *No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.*

### 6.2. Environmental precautions

**Environmental precautions** *Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).*

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

**Methods for cleaning up** *Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.*

### 6.4. Reference to other sections

**Reference to other sections** *For personal protection, see Section 8. For waste disposal, see Section 13.*

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** *Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.*

**Advice on general occupational hygiene** *Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.*

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

**Storage precautions** *Store away from incompatible materials (see Section 10). Store in accordance with local regulations.*

**Storage class** *Unspecified storage.*

### 7.3. Specific end use(s)

**Specific end use(s)** *The identified uses for this product are detailed in Section 1.2.*

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

**Ingredient comments** *No exposure limits known for ingredient(s).*

### 8.2. Exposure controls

**Protective equipment**



**Appropriate engineering controls** *Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.*

**Eye/face protection** *Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. No specific eye protection required during normal use.*

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Hand protection	<i>Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.</i>
Other skin and body protection	<i>Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.</i>
Hygiene measures	<i>Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.</i>
Respiratory protection	<i>Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.</i>
Environmental exposure controls	<i>Not regarded as dangerous for the environment.</i>

### SECTION 9: Physical and chemical properties

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

Appearance	<i>Solid.</i>
Colour	<i>White/off-white.</i>
Odour	<i>Characteristic. Tobacco Chamomile-like Aroma</i>
Odour threshold	<i>Not available.</i>
pH	<i>Not available.</i>
Melting point	<i>Not available.</i>
Initial boiling point and range	<i>140-142°C/284-288°F</i>
Flash point	<i>&gt; 93°C / 200°F Method: Closed cup.</i>
Evaporation rate	<i>Not available.</i>
Upper/lower flammability or explosive limits	<i>Not available.</i>
Vapour pressure	<i>Not available.</i>
Vapour density	<i>Not available.</i>
Relative density	<i>Not available.</i>
Solubility(ies)	<i>Not available.</i>
Partition coefficient	<i>Not available.</i>
Auto-ignition temperature	<i>Not available.</i>
Decomposition Temperature	<i>Not available.</i>
Viscosity	<i>Not available.</i>
Explosive properties	<i>Not available.</i>
Oxidising properties	<i>Not available.</i>

#### 9.2. Other information

Molecular weight	<i>228.33 g/mol</i>
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### SECTION 10: Stability and reactivity

## L-Menthyl lactate

### 10.1. Reactivity

Reactivity *See the other subsections of this section for further details.*

### 10.2. Chemical stability

Stability *Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.*

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions *No potentially hazardous reactions known.*

### 10.4. Conditions to avoid

Conditions to avoid *There are no known conditions that are likely to result in a hazardous situation.*

### 10.5. Incompatible materials

Materials to avoid *No specific material or group of materials is likely to react with the product to produce a hazardous situation.*

### 10.6. Hazardous decomposition products

Hazardous decomposition products *Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.*

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

Summary *Based on available data the classification criteria are not met.*

#### Acute toxicity - dermal

Summary *Based on available data the classification criteria are not met.*

#### Acute toxicity - inhalation

Summary *Based on available data the classification criteria are not met.*

#### Skin corrosion/irritation

Summary *Based on available data the classification criteria are not met.*

#### Serious eye damage/irritation

Summary *Based on available data the classification criteria are not met.*

#### Respiratory sensitisation

Summary *Based on available data the classification criteria are not met.*

#### Skin sensitisation

Summary *Based on available data the classification criteria are not met.*

#### Germ cell mutagenicity

Summary *Based on available data the classification criteria are not met.*

#### Carcinogenicity

Summary *Based on available data the classification criteria are not met.*

#### Reproductive toxicity

Summary *Based on available data the classification criteria are not met.*

#### Specific target organ toxicity - single exposure

Summary *Based on available data the classification criteria are not met.*

#### Specific target organ toxicity - repeated exposure

Summary *Based on available data the classification criteria are not met.*

#### Aspiration hazard

Summary *Not relevant. Solid.*

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General information	<i>No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.</i>
Inhalation	<i>A single exposure may cause the following adverse effects: Temporary irritation.</i>
Ingestion	<i>May cause discomfort if swallowed. May cause stomach pain or vomiting.</i>
Skin contact	<i>Prolonged contact may cause dryness of the skin.</i>
Eye contact	<i>May be slightly irritating to eyes.</i>
Route of exposure	<i>Ingestion Inhalation Skin and/or eye contact</i>
Target organs	<i>No specific target organs known.</i>

### SECTION 12: Ecological information

Ecotoxicity	<i>Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.</i>
<b>12.1. Toxicity</b>	
Acute aquatic toxicity	
Summary	<i>Based on available data the classification criteria are not met.</i>
Chronic aquatic toxicity	
Summary	<i>Based on available data the classification criteria are not met.</i>
<b>12.2. Persistence and degradability</b>	
Persistence and degradability	<i>The degradability of the product is not known.</i>
<b>12.3. Bioaccumulative potential</b>	
Bioaccumulative potential	<i>No data available on bioaccumulation.</i>
Partition coefficient	<i>Not available.</i>
<b>12.4. Mobility in soil</b>	
Mobility	<i>No data available.</i>
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>12.6. Other adverse effects</b>	
Other adverse effects	<i>None known.</i>

### SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
General information	<i>The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.</i>
Disposal methods	<i>Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.</i>

### SECTION 14: Transport information

General	<i>The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).</i>
<b>14.1. UN number</b>	
	<i>Not applicable.</i>

## L-Menthyl lactate

### 14.2. UN proper shipping name

*Not applicable.*

### 14.3. Transport hazard class(es)

*No transport warning sign required.*

### 14.4. Packing group

*Not applicable.*

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

*No.*

### 14.6. Special precautions for user

*Not applicable.*

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code *Not applicable.*

## SECTION 15: Regulatory information

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

National regulations	<p><i>Health and Safety at Work etc. Act 1974 (as amended).</i></p> <p><i>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</i></p> <p><i>EH40/2005 Workplace exposure limits.</i></p>
EU legislation	<p><i>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</i></p> <p><i>Commission Regulation (EU) No 2015/830 of 28 May 2015.</i></p> <p><i>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</i></p>

### 15.2. Chemical safety assessment

#### Inventories

Canada - DSL/NDSL  
DSL

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p><i>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</i></p> <p><i>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</i></p> <p><i>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</i></p> <p><i>IATA: International Air Transport Association.</i></p> <p><i>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</i></p> <p><i>IMDG: International Maritime Dangerous Goods.</i></p> <p><i>CAS: Chemical Abstracts Service.</i></p> <p><i>ATE: Acute Toxicity Estimate.</i></p> <p><i>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</i></p> <p><i>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</i></p> <p><i>EC<sub>50</sub>: 50% of maximal Effective Concentration.</i></p> <p><i>PBT: Persistent, Bioaccumulative and Toxic substance.</i></p> <p><i>vPvB: Very Persistent and Very Bioaccumulative.</i></p>
Training advice	<i>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</i>
Revision comments	<i>NOTE: Lines within the margin indicate significant changes from the previous revision.</i>

## L-Menthyl lactate

Revision date 17/06/2021

Revision 1

SDS number 1282

End of Safety Data Sheet

*This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.*