Section 1 Product and Supplier Information

Product Name: Querciverol Lure

Product code: P548-Lure

Active Ingredient Name: Querciverol (p-menth-2-en-1-ol), aggregation pheromone of the ambrosia beetle, Platypus quercivorus (Coleoptera: Platypodidae) and Polyphagus Shot Hole Borer Euwallacea fornicates. For use in crops to attract ambrosia beetles.

Section 2: Composition / Information on Ingredient

Active Ingredient:
Name: 4-Isopropyl-1-methyl-2-cyclohexen-1-ol, p-menth-2-en-1-ol, Quercivorol
CAS: 29803-81-4
Formula: C_{10}H_{18}O
Chemical family: aliphatic alcohol

Section 3 Hazards Identification
Physical hazards Not Classified
Health Hazards Not Classified
Environmental Hazards Not Classified
OSHA Defined Hazards Not Classified

Label Elements
Pictogram None
Signal word None
Hazard Statement This product does not meet the criteria for classification.

Precautionary statement
Prevention Observe good handling hygiene practices.
Response Wash hands after handling.
Storage Store in cool place.

Disposal Dispose of waste in sanitary landfill in accordance with local authority requirements.

Section 4 First Aid Measures

Inhalation Difficult to inhale Move to fresh air. Call a physician if symptoms develop.
Skin Contact Wash off with soap and water. Get Medical attention if irritation develops.
Eye Contact Rinse with water. Get medical attention if irritation develops.
Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms Direct contact with eyes may cause temporary irritation.
/Effects, acute and delayed

Section 5 Fire Fighting Measures


Specific hazards arising from fire During fire, gases hazardous to health may be formed.

Specific methods Use standard firefighting procedures.

General fire hazards No unusual fire or explosion hazards.

Section 6 Accidental Release Measures

Procedure to be followed in Pick up plastic devices and dispose of in approved manner.
case of leak or spill

Procedure(s) of personal No protective apparatus necessary for cleanup.
precaution(s)

Methods for cleaning up
Pick up material and dispose of in approve manner.

Section 7 Handling and Storage

Handling: No special precautions necessary when handling the product.
Storage: Suitable: Keep cool and away from sparks and open flame.

Section 8 Exposure Controls / PPE

Occupational exposure limits
No exposure limits for ingredients.

Biological limit values
No biological exposure limits noted for ingredients.

Appropriate engineering controls
Good ventilation ~10 air changes/hr should be used.

Personal Protective Equipment
No respiratory equipment required. Eyeglasses recommended.

General Hygiene Measures
Wash after handling.

Section 9 Physical / Chemical Properties

Product
Appearance: Solid
Physical State: Solid

Active Ingredient: Liquid
Property of Active Ingredient: Value
Molecular Weight: 154.249 g/mol
BP/BP Range 213°C 760 mmHg
MP / MP Range 5.3°C
Vapour pressure: 0.0457 mmHg at 25 °C
Relative density: 0.922 g/cc
Water solubility: 433.2 mg/L at 25 °C
Partition coefficient: n-octanol/water: log Pow: 2.884
Refraction index: 1.478

N/A = not available

Section 10 Stability and Reactivity

Reactivity
Product is stable under normal transport, storage and use.

Chemical Stability
Product is stable under normal conditions.

Possibility of hazardous reactions
No known hazardous reactions known under normal use.
Section 11 Toxicological Information

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>No adverse effect due to skin contact are expected.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Product causes eye irritation if directly rubbed in eye.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Product difficult to inhale. No adverse effects expected.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Expected to be low ingestion hazard.</td>
</tr>
</tbody>
</table>

Signs and Symptoms of Exposure

Direct contact with eyes may cause temporary irritation.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No adverse effects due to inhalation are expected.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No adverse effects due to skin contact are expected.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Expected to be a low ingestion hazard.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not a skin sensitizer.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not a respiratory sensitizer.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>This product is not expected to cause skin sensitization.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.</td>
</tr>
</tbody>
</table>


Reproductive toxicity

Product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure Not classified.
- repeated exposure Not classified.
Aspiration hazard  Not an aspiration hazard.

Section 12 Ecological Information

The product is not classified as environmentally hazardous.
Persistence and degradability  No data is available on the degradability of this product.
Bioaccumulative potential  Very low if used in prescribed manner.
Mobility in soil  No data available. Very low if used in prescribed manner.
Other adverse effects  No other adverse environmental effects.

Section 13 Disposal Considerations

Disposal instructions  Collect and dispose of in sanitary landfill.
Local disposal regulations  Dispose in accordance with all applicable regulations.
Waste from residues / unused product  Dispose of in accordance with local regulations.

Section 14 Transport Information

DOT  Not Regulated
IATA  Not Regulated

Section 15 Regulatory Information

US federal regulations  One or more components are not listed on TSCA.
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)  Not listed.
SARA 304 Emergency release notification  Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories
Immediate Hazard  No
Delayed Hazard  No
Fire Hazard                     No
Pressure Hazard                 No
Reactivity Hazard               No
SARA 302 Extremely hazardous substance  Not listed.
SARA 311/312 Hazardous chemical  No
SARA 313 (TRI reporting)        Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List   Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental                          Not regulated.
Release Prevention (40 CFR 68.130)
Safe Drinking Water Act  Not regulated.
(SDWA)

US state regulations
US. California Controlled Substances.  Not listed.
CA Department of Justice (California Health and Safety Code Section 11100)

US. Massachusetts RTK - Substance List  Not regulated.
US. New Jersey Worker & Community Right-to-Know Act  Not listed.
US. Pennsylvania Worker & Community Right-to-Know Law  Not listed.
US. Rhode Island RTK  Not regulated.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Canada Regulatory Information
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains information required by the CPR.

International Inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory name</th>
<th>On inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>(yes/no)*</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

No indicates the product ingredients are not listed or exempt from listing on the inventory administered by the country.
Section 16 Other Information

Disclaimer
For use outdoors.

Warranty
Chemtica cannot anticipate all conditions under which this information and its product, may be used. It is the user’s responsibility to ensure safe handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.