1. PRODUCT IDENTIFICATION

1.1. Product Identifiers
Product name: EcoVia™ EC Emulsifiable Concentrate

1.2. Other Means of Identification
Product synonyms: none

1.3. Recommended Uses/Restrictions to Use
Uses: FIFRA 25(b) exempt “minimum risk” pesticide product for the control of various pest species per label
Restrictions: See product label for details

1.4. Supplier Details
Company: Rockwell Labs Ltd
1257 Bedford Avenue
North Kansas City, MO 64116-4308
USA
Telephone: 1 816-283-3167

1.5. Emergency Contact
Outside normal business hours
Emergency Phone #: 1 800-424-9300 (USA & Canada)
1 703-527-3887 (Outside USA & Canada)

2. HAZARDS IDENTIFICATION

2.1. Classification of Substance or Mixture
Flammable Liquid: Category 3
Skin Irritant: Category 2
Serious Eye Damage/Irritation: Category 1
Acute Aquatic Toxicity: Category 2

2.2. GHS label elements, including precautionary statements
Pictogram(s)

Signal word: Danger
Hazard statement(s)
H226 Flammable liquid and vapor
H315          Causes skin irritation  
H318          Causes serious eye damage  
H401          Toxic to aquatic life  

Precautionary statement(s)  
P210          Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264          Wash exposed skin thoroughly after handling.  
P280          Wear protective gloves/protective clothing/eye protection/face protection.  
P321          Specific treatment (see supplemental first aid instructions on this label).  
P370 + P378   In case of fire: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P302 + P352   IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313   If skin irritation occurs: Get medical advice/attention.  
P362 + P364   Take off contaminated clothing and wash it before reuse.  
P303 + P361 + P353   IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P305 + P351 + P338, P310   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or seek emergency medical treatment.  
P501          Dispose of contents in accordance with local/state/federal regulations.  

2.3. Other hazards which do not result in classification  
none  

3. COMPOSITION/INFORMATION ON INGREDIENTS  
3.1. Substances  
Not applicable  
3.2. Mixtures  
Hazardous component(s) or components of note:  

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Contains (% w/w)</th>
<th>CAS-No.</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thyme Oil</td>
<td>20</td>
<td>8007-46-3</td>
<td>Skin irritant (Cat. 2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Serious eye damage (Cat. 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Aquatic Tox. (Cat. 2)</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>10 - 20</td>
<td>67-63-0</td>
<td>Flammable Liquid (Cat. 3)</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES  
4.1. Description of first aid measures  
General advice
Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

If inhaled
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

In case of skin contact
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed
Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed, if necessary
None known

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical
Oxides of carbon, nitrogen, and sulfur.

5.3. Special protective equipment and precautions for fire fighters
Wear self contained breathing apparatus for firefighting.
Additional information: none.

5.4. Further information
Avoid release of material to storm drains and open bodies of water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Product should not be applied directly to surface water.

6.3. Methods and materials for containment and cleaning up
Wipe up any spilled material and dispose of according to instructions in section 13. Wash contaminated surfaces with soap and water.
7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Handle in accordance with good industrial hygiene practices. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if product gets inside. Wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of the gloves before removing. For additional precautions see section 2.2

7.2. Conditions for safe storage, including any incompatibilities
Store upright in original container. Do not store where children or animals may gain access. Avoid exposure to extreme temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Components with workplace parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
<td>OSHA PEL</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

8.3. Individual protection measures, such as personal protective equipment
In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.

Eye/face protection
Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

Skin protection
Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

Respiratory protection
Not required under normal use conditions. Chemical cartridge respirator with organic vapor cartridge recommended when risk assessment shows need for air-purifying respirators.

Thermal hazards
None known
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance;</td>
<td>Translucent tan liquid</td>
</tr>
<tr>
<td>Odor;</td>
<td>Botanical</td>
</tr>
<tr>
<td>Odor threshold;</td>
<td>No data available</td>
</tr>
<tr>
<td>pH;</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point;</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range;</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point;</td>
<td>93 °F (34 °C)</td>
</tr>
<tr>
<td>Evaporation rate;</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas);</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits;</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure;</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density;</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density;</td>
<td>0.95 g/ml</td>
</tr>
<tr>
<td>Solubility;</td>
<td>Soluble in water at dilutions rates listed. Soluble in nonaqueous materials</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water;</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature;</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature;</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity;</td>
<td>Similar to that of water</td>
</tr>
</tbody>
</table>

9.2. Additional Information

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available
10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials
Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products
Other decomposition products – no data available
In the event of a fire: see section 5

11. TOXICOLOGICAL INFORMATION
11.1. Information on toxicological effects

Acute Toxicity Estimate (ATE)
LD50 Oral – Rat – >2400 mg/kg
LD50 Dermal – Rat – > 5000 mg/kg
LD50 Inhalation – no data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
Inhalation, Oral – May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

11.2. Other information
12. ECOLOGICAL INFORMATION

12.1. Toxicity Estimate
- Toxicity to fish: LC50 – Pimephales promelas (fathead minnow) – 9.33 mg/l (96 hr)
- Toxicity to daphnia: EC50 – Daphnia magna (Water flea) – 4.89 mg/l (48 hr)
- Toxicity to and other aquatic invertebrates

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS


The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.

Product Disposal:
Do not contaminate water, food or feed by storage or disposal.

Packaging Disposal:
If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.
See section 8 for proper PPE and precautionary handling measures.

14. TRANSPORT INFORMATION

DOT
- Bulk Shipment Only:
- UN number: 2924   Class: 3   Packing Group: III
- Proper shipping name: Flammable liquids, corrosive, n.o.s.
- Reportable Quantity (RQ):

IMDG
- UN number: 2924   Class: 3   Packing Group: III
- Proper shipping name: Flammable liquids, corrosive, n.o.s.

IATA
- UN number: 2924   Class: 3   Packing Group: III
- Proper shipping name: Flammable liquids, corrosive, n.o.s.
15. REGULATORY INFORMATION

This chemical is a FIFRA 25(b) Exempt pesticide product that is not registered by the Environmental Protection Agency but is subject to certain labeling requirements under various state pesticide laws. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

KEEP OUT OF THE REACH OF CHILDREN
CAUTION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
Isopropyl alcohol – CAS-No. 67-63-0

SARA 311/312 Hazards
Immediate (Acute) Health Hazard, Fire Hazard

California Proposition 65 Components
This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.

TSCA
All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.

16. OTHER INFORMATION

Acronyms and abbreviations used

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50%</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Industrial Hygienists</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>Chemical Abstract Services - Number</td>
</tr>
<tr>
<td>PPE</td>
<td>Personal Protective Equipment</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System</td>
</tr>
</tbody>
</table>
Hazard Rating System Crossover

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard:</td>
<td>2</td>
</tr>
<tr>
<td>Flammability:</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>0</td>
</tr>
</tbody>
</table>

Preparation information

Prepared by: Rockwell Labs Ltd
Version: 1.1
Revision Date: June 8, 2015
Reason for revision: Updated Transportation Information section.

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