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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:

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

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

| Component | CAS-No. | Value | Control parameters | Basis |
|-------------------|---------|-------|--------------------|-----------|
| Isopropyl alcohol | 67-63-0 | TWA | 400 ppm | NIOSH REL |
| | | ST | 500 ppm | |
| | | TWA | 400 ppm | OSHA PEL |

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

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

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

No data available

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)
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

13.1. Disposal Methods.

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

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

| | |
|------|---------------------------------------|
| NFPA | National Fire Protection Association |
| PPM | Parts Per Million |
| ANSI | American National Standards Institute |
| TWA | Time Weighted Average |
| PEL | Permissible Exposure Limit |
| REL | Recommended Exposure Limit |
| LC50 | Lethal Concentration, 50% |
| EC50 | Effective concentration, half maximal |
| ST | Short Term |

Hazard Rating System Crossover

HMIS Rating

| | |
|----------------|---|
| Health Hazard: | 2 |
| Flammability: | 3 |
| Reactivity: | 0 |

NFPA Rating

| | |
|----------------|---|
| Health Hazard: | 2 |
| Flammability: | 3 |
| Reactivity: | 0 |

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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