MATERIAL SAFETY DATA SHEET



1. PRODUCT NAME AND COMPANY IDENTIFIER

Product Name: CIRKIL™ CX

Product Use: Insecticide and Ovicide

EPA Registration No.: 88760-2

Company Name (Phone Number) Terramera, Inc. (1-800-597-9509)

Company Address Buena Park Station, Buena Park, CA 90622-6449

Last Revision: May 10, 2012

For more information on MSDS, please email msdsinfo@terramera.com.

2. HAZARDS IDENTIFICATION

Hazards Overview: CAUTION. May be harmful if swallowed.

KEEP OUT OF REACH OF CHILDREN.

Routes of Entry: Eye Contact – May cause minimal irritation.

Skin – No known hazard.

Ingestion – May be harmful if swallowed.

Inhalation – No known hazard.

Sensitization: Skin sensitization is not expected.

Medical Conditions Aggravated by

Overexposure: None

3. COMPOSITION/INGREDIENT INFORMATION

CAS NumberContent (w/w)Chemical Name8002-65-122 %Cold Pressed Neem Oil78 %Proprietary ingredients

All ingredients meet requirements of the US National Organic Program.

Hazardous Components: None. This product should pose no health concerns when used in

accordance with the directions for use provided by the manufacturer.

4. FIRST-AID MEASURES

General Advice: Have the product container or label with you when calling a poison

control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 7:30 am to 3:30 pm Pacific

Time (NPIC Web site: www.npic.orst.edu)

Ingestion: Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything to an unconscious person.

Skin: Wash thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco or using the toilet.

Eyes: First rinse with running water for several minutes (remove contact lenses

if easily possible). If irritation persists, seek medical advice.

Inhalation: If symptoms of irritation or light-headedness occur, provide fresh air

immediately and rest. If symptoms persist, seek medical advice.

5. FIRE-FIGHTING MEASURES

Flash Point: >205°F

Suitable Extinguishing Media: Foam, powder, carbon dioxide

Special Firefighting Procedures: Do not use direct water jet on burning material. Keep containers cool by

spraying with water if exposed to fire. Avoid vapor inhalation. Wear self-

contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Steps for Spills: Ensure adequate ventilation. Collect spilled liquid in containers if possible

for reuse or disposal. Transfer collected substance to properly labeled containers for reuse or disposal at an approved waste disposal facility.

Absorb remaining liquid in paper, sand or inert absorbent.

Environmental Precautions: Do not discharge into soil, drains, surface waters or groundwater.

7. HANDLING AND STORAGE

Handling: Use the product strictly according to the directions for use provided by

the manufacturer. Handle and open container with care. Wash hands thoroughly with soap and water after handling. Avoid contact with eyes.

Avoid inhalation of mists/vapors.

Storage: For optimal performance, store at room temperature between 59°F (15°C)

and 86°F (30°C). Avoid storing at temperatures above 104°F (40°C) or below 20°F (-7°C). Keep away from light and moisture. Keep containers

tightly sealed. Keep only in the original container.

8. EXPOSURE CONTOL/PERSONAL PROTECTION

Eye Protection: Safety glasses or goggles recommended.

Respiratory Protection: Respiratory protection suitable for organic fumes and oils is

recommended.

Skin Protection: Protective gloves. Selection of gloves must be based on the user's

assessment of the workplace hazards.

General Safety and Hygiene Measures: Keep away from food and drink. Wash hands before breaks and at the end

of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Oily liquid (20°C)

Color: Light yellow

Odor: Mild fragrant odor

pH: 4.98 – 5.00

Specific Gravity: $1.005 - 1.006 \text{ g/ml } (20^{\circ}\text{C})$

Viscosity: 5.90 mPa*s

Boiling Point: Not determined

Freezing Point: Not determined

Solubility in Water: Dispersible

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Incompatibility (Materials to Avoid): Avoid oxidizing agents.

Conditions to Avoid: Avoid light and moisture. Avoid low temperature. Avoid prolonged

exposure to extreme heat. Avoid storage for longer than 12 hours if the

product is mixed with water. Avoid electrostatic discharge.

Hazardous Reactions: No hazardous reaction if stored and handled as indicated.

Hazardous Decomposition or

Byproducts:

No hazardous decomposition byproducts if stored and handled as

indicated.

Thermal Decomposition: Stable at ambient temperature. If product is heated above decomposition

temperature, carbon monoxide may be released. Possible thermal decomposition products: Carbon monoxide, carbon dioxide, water.

11. TOXICOLOGICAL INFORMATION

Acute Oral: LD50/rat/female: 3129 mg/kg

Acute Dermal: LD50/rat (male & female) > 5050 mg/kg

Acute Inhalation: LD50 > 2.11 mg/L (4 h exposure; highest concentrate tested; no death)

Acute Eye Irritation: Minimally irritating

Acute Skin Irritation: Slightly irritating

Sensitization: Not a sensitizer

Non-acute information pertains to the active ingredient, cold pressed neem oil.

Reproductive Toxicity:No adverse effect if used according to the directions for use provided by

the manufacturer

Teratogenicity: Not a known teratogen

Mutagenicity: Negative in mutagenicity assays

Carcinogenicity: NTP: Not listed IARC: Not listed

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12. ECOLOGICAL INFORMATION

Information on: Cold Pressed Neem Oil

Biodegradation: Ecotoxicity:

Readily biodegradable in soil, water and on foliar surfaces
No concern for ecological hazards. No concern for non-target organisms.

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility according to local, state and federal regulations. Do not contaminate water, food or feed by pesticide storage or disposal. Do not discharge into soil, drains, surface waters or groundwater. Open dumping is prohibited. Do not reuse container.

14. TRANSPORT INFORMATION

Reference Bill of Lading

15. REGULATORY INFORMATION

The labeling requirements under federal pesticide law differ from the classification criteria and hazard information required for material safety data sheets (MSDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The proposed pesticide label being reviewed by the Environmental Protection Agency includes other important information, including directions for use.

CAUTION

Harmful if swallowed.

16. ADDITIONAL INFORMATION

IMPORTANT: While the descriptions, data and information contained in this document are presented in good faith and believed to be accurate, it is provided for guidance only, and all statements or suggestions are made without any warranties, expressed or implied, of merchantability, of fitness for a particular purpose, or of the accuracy of the information. Attempts have been made to eliminate or draw attention to the risks associated with the use of this product; however, it is impossible to eliminate all risks inherently associated with the use, handling and transport of this product. Damage to products, materials, treated surfaces, ineffectiveness or other unintended consequences may result because of factors such as environmental conditions, the presence of other materials, the manner of use or application, the use of the product in a manner inconsistent with its labeling, or other unknown reasons, all of which are beyond the control of Terramera. All such risks shall be assumed by you as a user. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user. This safety sheet cannot cover all possible situations that the user may experience. Each aspect of your operations should be examined to determine if additional precautions might be necessary. All health and safety information contained herein should be provided to your employees.

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