

## 1. Identification

**Product Name:** NemaKill®

**Recommended Use:** 25(b) minimum risk organic chemical adjuvant

**Manufacturer/ Distributor:**

ExcelAg, Corp.

7300 N Kendall Dr Ste 640

Miami, FL, USA 33156-7840

1-305-670-0145

**Emergency Telephone Number:** 813-248-0573 (ChemTel Inc.)

## 2. Hazards

**GHS Classification:**

Acute toxicity – Category 5 (oral/dermal)

Skin irritation – Category 2

Eye irritation – Category 2

Flammable liquid – Category 4

**GHS Labeling:**

**Symbol:** Exclamation mark



**Signal word:** Warning

**Hazard statements:** Causes skin irritation.

Causes eye irritation.

May be harmful if swallowed.

May be combustible at high temperatures.

**Precautionary statements:** Do not eat, drink or use tobacco when using this product.

Wear protective gloves and eye/face protection.

Use only in a well-ventilated area.

Store container tightly closed in cool/well-ventilated place.

Wash thoroughly after handling.

## 3. Composition/ Information on Ingredients

<b>Component</b>	<b>CAS#</b>	<b>Weight</b>
Cinnamon Oil	8015-91-6	32%
Clove Oil	8000-34-8	8%
Thyme Oil	8007-46-3	15%
Other ingredients	proprietary	45%

The specific chemical identity and exact percentage of composition has been withheld as a trade secret.

## 4. First-aid Measures

**Inhalation:** Remove to fresh air. Consult physician. If not breathing, give artificial respiration.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Wash clothing before reuse.

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, holding eyelids apart to irrigate thoroughly. Washing eyes within several seconds is essential to achieve maximum effectiveness. Consult physician if irritation persists.

**Ingestion:** Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of water or milk. Seek medical attention.

### 5. Fire-fighting Measures

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Use water to dilute spills and to flush them away from sources of ignition.

**Combustion Products:** Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen.

### Section 6: Accidental Release Measures

Keep unnecessary people away; isolate hazard area and deny entry.

Shut off ignition sources; no flares, smokes or flames in hazard area. Small spill: take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal.

Do not flush to waterways. Prevent release to the environment if possible. Refer to Section 15 for spill/release reporting information.

### Section 7: Handling and Storage

#### Handling:

Do not get in eyes, on skin or on clothing. Keep container closed. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use.

#### Storage:

Store in tightly closed containers in cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire. Store at ambient or lower temperature. Store out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect against physical damage.

### 8. Exposure Controls/Personal Protection

**Engineering Controls:** Provide mechanical ventilation for confined spaces.

#### Personal Protective Equipment (PPE):

**Eye Protection:** Wear chemical safety goggles or safety glasses with side shields. Have eye-wash stations available where eye contact can occur.

**Skin Protection:** Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area. Recommended protective materials include Butyl rubber or PVC gloves and for limited contact Teflon.

**Respiratory Protection:** For a high concentration of vapors or oxygen deficient atmospheres NIOSH approved respiratory protection should be worn. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

### 9. Physical and Chemical Properties

**Boiling Point:** > 100°C

**Melting Point:** < -5°C

**Vapor Pressure:** Not available

**Vapor Density (Air=1):** Not available

**Solubility in Water:** Miscible

**Molecular Formula:** Mixture

**Odor/Appearance:** Amber liquid, cinnamon odor

**Specific Gravity:** 0.93 – 0.97

**Evaporation Rate (Water=1):** Not available

**Viscosity @ 20 rpm:** Not available

pH: 6.5 – 7.5

Molecular Weight: Mixture

### 10. Stability and Reactivity

**Stability/Incompatibility:** Incompatible with strong oxidizing agents.

**Hazardous Reactions/Decomposition Products:** Decomposition may occur in the presence of fire or hot alkaline materials.

### 11. Toxicological Information

**Signs and Symptoms of Overexposure:** Eye and nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, difficulty breathing, weakness, itching or burning of this skin.

**Acute Effects:**

**Eye Contact:** None determined, may cause mild conjunctival irritation.

**Skin Contact:** None determined, may cause allergic skin reaction.

**Inhalation:** None determined, may cause mild lung irritation.

**Ingestion:** None determined, may cause gastrointestinal burns.

**Target Organ Effects:** None determined, may cause gastrointestinal (oral), respiratory tract, nervous system, cardiovascular system, liver and blood effects.

**Chronic Effects:** None determined.

**Medical Conditions Aggravated by Exposure:**

#### Calculated Acute Toxicity Values Based on the LD50 of Components

Oral LD<sub>50</sub> (Rat) > 2000 mg/kg

Dermal LD<sub>50</sub> (Rabbit) > 2000 mg/kg

Inhalation LC<sub>50</sub> (Rat) > 2000 ppm

No toxicological data has been collected at this time.

### 12. Ecological Information

#### Calculated Acute Toxicity Values Based on the LD50 of Components

LC<sub>50</sub> (Flathead Minnows) > 100 mg/L

EC<sub>50</sub> (Daphnia) > 100 mg/L

No ecological data has been collected at this time.

### 13. Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14. Transport Information

**US DOT Classification:** Not regulated

**IMO Classification:** Not regulated

**IMDG Classification:** Not regulated

**IATA Classification:** Not regulated

**GHS Classification:**

**Proper Shipping Name:** Toxic liquid, organic, n.o.s.

**Hazard Class:** 6.1

**UN/NA Number:** 2810

**Packing Group:** III

**Marine Pollutant:** No

**Labels Required:** None

### 15. Regulatory Information

**Inventory Status:** All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

## 16. Other Information

**SDS preparation date:** 03/27/2018

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