

# MATERIAL SAFETY DATA SHEET

## CITRI-KING™

ORO AGRI, Inc.

Emergency Phone: Chemtrec 800-424-9300

Effective Date: June 13, 2006

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CITRI-KING™

**PRODUCT DESCRIPTION:** CITRI-KING is an adjuvant to improve tank mix efficacy via improved coverage of moisture and improved penetration of tank mix into plant and insect follice and waxy surfaces.

**COMPANY IDENTIFICATION:**

Oro Agri, Inc.

990 Trophy Club Dr.

Trophy Club, TX 76262

### 2. COMPOSITION/INGREDIENT INFORMATION

A hazard evaluation has identified one or more hazardous ingredient(s) under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Their identity is being claimed a trade secret. Consult Section 3 for the nature of the hazard(s).

### 3. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

**WARNING! Causes substantial but temporary eye irritation. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin or breathing spray mist. Wear protective eyewear/goggles, long-sleeved shirt, long pants, shoes, socks and waterproof gloves when applying this product. Do not allow children or pets to contact treated area until sprays have dried.**

**Primary Route(s) of Exposure:** Eye, Skin, and Inhalation

**Effects from Overexposure:** Causes substantial eye irritation when product enters the eye. Prolonged inhalation of mist or vapor may cause nausea, dizziness, light-headedness, vomiting or unconsciousness depending on the length of exposure and the first aid action given.

**Symptoms of Exposure:** A review of available data does not identify any symptoms from exposure not previously mentioned.

**Aggravation of Existing Conditions:** A review of available data does not identify any worsening of existing conditions.

### 4. FIRST AID

- If in eyes:**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
  - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- If inhaled:**
- Call a poison control center or doctor for treatment advice.
  - Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- If on skin or**
- Call a poison control center or doctor for further treatment advice.
  - Take off contaminated clothing.

- clothing:**
- Rinse skin immediately with plenty of water for 15-20 minutes.
  - Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:**

Based on individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition. If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

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**5. FIRE FIGHTING MEASURES**

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- Flash Point:** >200°F (>93°C)
- Extinguishing Media:** Use dry chemical, foam, carbon dioxide or another extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.
- Unusual Fire & Explosion Hazards:** May evolve CO, CO<sub>2</sub> and SO<sub>x</sub> under fire conditions.
- NFPA 704M/HMIS Rating:** Health - 1 Flammability - 0 Reactivity - 0 Other - 0

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**6. ACCIDENTAL RELEASE MEASURES**

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- Small liquid spills:** Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 15.
- Large liquid spills:** Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 15.
- For large indoor spills, evacuate employees and ventilate area. Those responsible for control and recovery should wear the protective equipment specified in Section 8.

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**7. HANDLING AND STORAGE**

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Avoid contact with skin or breathing spray mist. Wear protective eyewear/goggles, long-sleeved shirt, long pants, shoes, socks and waterproof gloves when applying this product. Do not allow children or pets to contact treated area until sprays have dried.

Keep container closed when not in use. Avoid temperatures below 34°F (5°C) and above 100°F (40°C).

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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- Respiratory Protection:** Because of the low volatility and toxicity of this product, respiratory protection is not typically necessary. If significant vapors are generated, use either a chemical cartridge respirator or supplied air.
- For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.
- Ventilation:** General ventilation is recommended.
- Protective Equipment:** Use impermeable gloves and chemical splash goggles when attaching feeding equipment, performing maintenance or handling this product. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (NOTE: compatibility studies have not been performed). The availability of an eye wash fountain and safety shower is recommended. If clothing is contaminated, remove

clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Color:</b>	Orange
<b>Form:</b>	Liquid
<b>Odor:</b>	Light citrus
<b>Density:</b>	8.5 lbs./gal.
<b>Solubility in Water:</b>	Complete
<b>pH (Neat):</b>	7.0-8.0 (ASTM D-70)
<b>Boiling Point:</b>	>200°F (>93°C) @ 760 mm Hg (calculated)
<b>Flash Point:</b>	>200°F (>93°C)
<b>Freeze Point:</b>	27°F (-3°C)
<b>Wt.% Volatile:</b>	Less than 5%
<b>Volatile Organic Compound (VOC):</b>	0.37 lbs./gal. (EPA Method 24)

These physical properties are typical values for this product and should not be considered as guarantees of any specific lot.

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## 10. STABILITY AND REACTIVITY

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<b>Incompatibility:</b>	Avoid contact with strong oxidizers (e.g., Ferric Chloride) which can generate heat and release toxic fumes.
<b>Thermal Decomposition Products:</b>	In the event of combustion, CO, CO <sub>2</sub> , and SO <sub>x</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute Oral Toxicity:</b>	Rat: LD <sub>50</sub> > 5000 mg/kg
<b>Acute Dermal Toxicity:</b>	Rabbit: LD <sub>50</sub> > 2000 mg/kg
<b>Acute Inhalation Toxicity:</b>	Rat: LC <sub>50</sub> >1.51 mg/L (NOTE: Product is a liquid)
<b>Eye Irritation:</b>	Rabbit: Primary eye irritant
<b>Skin Irritation:</b>	Rabbit: Not an irritant
<b>Dermal Sensitization:</b>	Guinea Pig: Non-sensitizing

### CARCINOGENICITY:

ACGIH:	Not Listed
IARC:	Not Listed
NTP:	Not Listed
OSHA:	Not Listed
CA Prop 65:	Not Listed

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## 12. ECOLOGICAL INFORMATION

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**Environmental Hazard and Exposure Characterization:** Environmental toxicity data is not available for the formulated product.

If released into the environment, see Section 13 for disposal and the CERCLA heading in Section 15 for reporting.

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## 13. DISPOSAL CONSIDERATIONS

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As a non-hazardous liquid waste, this product should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill.

Containers should be disposed of by rinsing thoroughly and then offering for recycling or reconditioning or puncture and dispose of in a sanitary landfill, by incinerating, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

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#### 14. TRANSPORTATION INFORMATION

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Not regulated by DOT.

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#### 15. REGULATORY INFORMATION

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##### FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION STANDARD STATUS: Regulated	
SARA Title III – Section 302 Extremely Hazardous Substances - Not listed	
SARA Title III – Section 311 Hazardous Categories -	Immediate
SARA Title III – Section 312 Threshold Planning Quantity -	10,000 lbs.
SARA Title III – Section 313 Reportable Ingredients -	Not Listed
CERCLA –	Not Listed

##### STATE REGULATIONS

California Proposition 65: Not Listed.

Michigan Critical Materials: Not Listed.

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#### 16. OTHER INFORMATION

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

##### DISCLAIMER:

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

This MSDS does not replace or modify the product label. It provides important health, safety, and environmental information for individuals handling large quantities of the product in activities generally other than product use. Conversely, the product label provides information for product use.

The information in this MSDS is believed to be correct as of the date hereof. The company makes no representations as to the completeness or accuracy thereof. The company is in no way responsible for damages of any kind from the use of, or reliance upon this information.

##### FOR EMERGENCY SPILL OR FIRST AID INFORMATION ONLY:

**In case of emergency call: CHEMTREC (1-800-424-9300)**

**For non-emergencies dial: CHEMTREC (1-800-262-8200)**

**International Calls: CHEMTREC (703-527-3887) collect calls accepted**

**For all other inquiries: ORO AGRI, Inc. (817-491-2057)**