



**Fuzhou Farwell Import &  
Export Co., Ltd**

**MATERIAL SAFETY DATA SHEET  
CITRAL**

8TH FLOOR, TIAN'AO MANSION, NO.169 HUDONG ROAD,  
FUZHOU, FUJIAN, CHINA  
Tel: 0086-591-87518032, 87518030  
Fax: 0086-591-87518092, 87536105  
E-mail: farwell@263.net

## **MSDS**

### **Section 1: Chemical Product and Company Identification**

**PRODUCT NAME:** Citral

**CAS#:** 5392-40-5

**CHEMICAL NAME:** Citral

**CHEMICAL FORMULA:** C<sub>10</sub>H<sub>16</sub>O

**FEMA:** 2303

**EINECS:** 226-394-6

**Company Identification:**

**Company:** FUZHOU FARWELL IMPORT & EXPORT CO.,LTD

**Company Address:** 8TH FLOOR, TIAN'AO MANSION, NO.169  
HUDONG ROAD, FUZHOU, FUJIAN, CHINA

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### **Section 2: Composition and Information on Ingredients**

**2.1 CHEMICAL INFORMATION:** Citral

**2.2 N° CAS:** 5392-40-5

**2.3 N° EINECS:** 226-394-6

**2.4 FEMA:** 2303

**2.5 N° CEE:** 605-019-00-3

**2.6 MOLECULAR FORMULA:** C<sub>10</sub>H<sub>16</sub>O

**2.7 MOLECULAR WEIGHT:** 152.23

### **Section 3: Hazards Identification**

**3.1 Human hazardous:** In his pure state, and when it is not correctly manipulated or when inhaled excessively, product can cause irritation of the skin, eyes and respiratory tracks.

**3.2 Environment hazardous:** if liked, product can pollute subsoil, soil and superficial water

### **Section 4: First Aid Measures**

**Inhalation:**

In case of excessive inhalation, expose the person to fresh air and if necessary, obtain medical assistance.

Symptoms: Choking, drowsiness, respiratory disruptions

**Eye Contact:**



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Immediately rinse eyes with water. If any sign of tissue damage or persistent irritation is apparent, obtain medical assistance immediately.

Symptoms: irritation, reddening.

### **Skin Contact:**

Remove contaminated clothing. Wash skin immediately with water and soap. If any sign of tissue damage or persistent irritation is apparent obtain medical assistance immediately.

Symptoms: irritation, stinging.

### **Ingestion:**

Rinse mouth with water. Obtain medical assistance immediately. Do not induce vomiting.

Symptoms: queasiness, stomach aches

## **Section 5: Fire and Explosion Data**

**Ways of extinction:** CO<sub>2</sub>, extinction powder or foam.

**Do not use:** water directly.

**Individual protection equipments:** use general extinction equipments for fire fighting and use breathing equipment. Avoid inhalation of fumes and vapours.

**Dangers:** Do not allow that the spilling of the fire extinction of fire flows into drain or water. High temperatures can provoke high pressures inside the closed packages. Do not breathe fumes or vapours.

## **Section 6: Accidental Release Measures**

### **6.1. Personal precautions:**

Remove all sources of ignition.

In case of existing, avoid breathing combustion vapours.

Provide proper ventilation. Avoid breathing vapours.

Avoid the contact with the skin, eyes and mucous.

See sections 8 and 13.

### **6.2. Environmental precautions:**

Spillages should be contained by use of sand or another inert material.

Avoid penetration in the sewage system and surface water.



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### **6.3. Methods for cleaning:**

Spillages should be contained by use of sand or another inert material. All the materials used for cleaning spillages should be disposed of promptly in accordance with current legislation.

## **Section 7: Handling and Storage**

### **7.1. Handling:**

Apply according to good manufacturing and industrial hygiene practices.

Respect good personal hygiene practices.

Do not drink, eat or smoke during manipulation.

Respect the precaution rules of the industrial risks.

Keep away from sources of ignition.

The incorporation to the finished product must be done at the lowest possible temperature. Ensure good ventilation of work station

### **7.2. Storage:**

Store according to the local and/or national storage rules, respecting the precautions printed on the labels. Store in hermetic recipients, better full, in cool, dry and ventilated areas away from heat sources and protected from light. Keep air contact to a minimum.

Keep away from sources of ignition and flames.

Fulfill the chemical agent storage regulation.

Do not store this product near any kind of food, or drinkable water.

## **Section 8: Exposure Controls/Personal Protection**

### **8.1. Exposure limit values**

**Exposure limit biological:**

### **8.2. Exposure controls:**

#### **8.2.1. Occupational exposure controls**

**8.2.1.1. Respiratory protection:** Avoid breathing directly on the product. Apply local ventilation when appropriate.

**8.2.1.2. Hand protection:** Use chemical resistant gloves

**8.2.1.3. Eye protection:** Use safety glasses

**8.2.1.4. Skin protection:** Avoid skin contact

**8.2.2. Environment exposure control:** Avoid discharging into drainage water. Only eliminate by authorized companies



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### **Section 9: Physical and Chemical Properties**

**Physical state:** Liquid  
**Color:** Colorless to Yellowish  
**Odor:** Characteristic, Fresh  
**Solubility:** Sparingly soluble in water. Soluble in alcohol.  
**Relative Density:** 0,884 - 0,894  
**Refractive index:** Not available  
**Flash Point:** 97.5°C  
**Flammability Limits (%):** Not available  
**Autoignition Temperature (°C):** Not available  
**Melting Point/Range (°C):** Not available  
**Boiling Point/Range (°C):** 229°C  
**Decomposition Point (°C):** Not available  
**Freezing Point/Range (°C):** Not available

### **Section 10: Stability and Reactivity Data**

**Stable under normal conditions**

- 10.1 Conditions to avoid:** High temperatures, pressure and inadequate manipulation of packages.
- 10.2 Materials to avoid:** Acid, alkaline and oxidizing agents
- 10.3 Hazardous decomposition products:** Under normal conditions of storage are not known dangerous substances in decomposition

### **Section 11: Toxicological Information**

**Toxic kinetics, metabolism and distribution:**

**Acute effects (acute toxicity, irritation and corrosively):**

**Sensitization:** Not available

**Repeated dose toxicity:** Oral LD50 (rat) : >5,000 mg/kg  
Dermal LD50 (rat) : >2,000 mg/kg  
Dermal LD50 (rabbit) : >2,250 mg/kg  
SKIN: Irritant (rabbit). A skin sensitizer (guinea pig).

**CMR Effects (carcinogenity, mutagenicity and toxicity for reproduction):**



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### **Section 12: Ecological Information**

**12.1 ECOTOXICITY:**

**12.2 MOBILITY:**

**12.3 PERSISTENCE AND DEGRADABILITY:**

**12.4 BIOACCUMULATIVE POTENTIAL:**

**12.5 RESULTS OF PBT ASSESSMENT:**

**12.6 OTHER ADVERSE EFFECTS:**

### **Section 13: Disposal Considerations**

Respect the local or national norms about elimination of residues and packages appropriate elimination method: whenever possible, it is better to recycle than depositing or incinerating.

### **Section 14: Transport Information**

**Road and Rail Transport:**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Marine Transport:**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Air Transport:**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### **Section 15: Other Regulatory Information**

**HAZARD SYMBOLS:**

Xi: Irritant

N: Dangerous for the Environment

**R PHRASES:**

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.



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R51: Toxic to aquatic organisms.

**S PHRASES:**

**S24:** Avoid contact with skin.

**S36/37:** Wear suitable protective clothing and gloves.

**S61:** Avoid release to the environment. Refer to special instructions Safety Data Sheets.

### **Section 16: Other Information**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall farwell be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if farwell has been advised of the possibility of such damages.*