# FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

**MSDS #:** 243.05

**Revision Date:** October 6, 2011

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Cinnamaldehyde

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

#### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Cinnamaldehyde

Synonyms: trans-Cinnamaldehyde; 3-Phenyl-(E)-2-propenal

CAS#: 14371-10-9

#### **SECTION 3 — HAZARDS IDENTIFICATION**

Pale-yellow to yellow, clear liquid. Cinnamon odor.

Irritating to eyes, respiratory system, and skin.

May be harmful if inhaled, ingested, or absorbed through the skin. Not for human use.

Class IIIA combustible liquid.

FLINN AT-A-GLANCE

Health-1 Flammability-1

Reactivity-0

Exposure-1 Storage-0

0 is low hazard, 3 is high hazard

#### **SECTION 4 — FIRST AID MEASURES**

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Class IIIA combustible liquid.

Flash point: 71 °C (Closed cup).

**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and

SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None established

#### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic Miscellaneous. Store together with the Organic Smell Identification Kit.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: None established.

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet Cinnamaldehyde

MSDS #: 243.05

Revision Date: October 6, 2011

#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Pale-yellow to yellow, clear liquid.

Solubility: Slightly soluble in water. Soluble in ethyl alcohol.

Formula: C<sub>9</sub>H<sub>8</sub>O Formula weight: 132.16 Boiling point: 248  $^{\circ}$ C @ 760 mmHg

Density: 1.050 Melting point: -7.5 °C Vapor density: 4.56

#### **SECTION 10 — STABILITY AND REACTIVITY**

Keep away from heat and open flame. Incompatible with strong oxidizing agents and strong bases.

Hazardous decomposition products (by fire): Carbon dioxide, carbon monoxide

Shelf life: Excellent, if stored safely.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Cough, headache, nausea, vomiting, and shortness of

breath.

Chronic effects: Possible allergen.

Target organs: Respiratory system.

ORL-RAT LD<sub>50</sub>: 2220 mg/kg

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

#### **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #18a is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Combustible liquid, n.o.s.

Hazard class: CBL UN number: 1993 N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA listed.

#### **SECTION 16 — OTHER INFORMATION**

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

## Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.