FLINN SCIENTIFIC. INC. **Material Safety Data Sheet (MSDS)**

MSDS #: 879.65

Revision Date: October 12, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(R,-)-Carvone

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

(R,-)-Carvone

Synonyms: (R)-Carvone; (-)-Carvone; 1-Carvone; 2-Cyclohexen-1-one

CAS#: 6485-40-1

SECTION 3 — HAZARDS IDENTIFICATION

Colorless to pale-yellow clear liquid. Spearmint odor.

Irritating to eyes and skin. May be harmful if ingested or absorbed through the skin.

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: 94 °C (Closed cup).

When heated to decomposition, emits toxic fumes of CO and CO₂.

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

SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None established

<u>SECTION 6 — ACCIDENTAL RELEASE MEASURES</u>

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material deposit in 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). FLINN SCIENTIFIC, INC.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless to pale yellow clear liquid.

Solubility: Insoluble in water.

Formula: C₁₀H₁₄O

Formula weight: 150.22

Boiling point: 230 °C Specific gravity: 0.96

Vapor density: 5.2

Vapor pressure: 0.4 mmHg

SECTION 10 — STABILITY AND REACTIVITY

Keep away from heat and open flame. Incompatible with moisture, strong oxidizing agents, strong reducing 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: Irritation to skin and eyes.

Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD₅₀: 1640 mg/kg

IHL-RAT LC₅₀: N.A. SKN-RBT LD₅₀: 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: Combustible liquid

UN number: NA1993 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA listed.

SECTION 16 — OTHER INFORMATION

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