

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-2; Flammability-3;

Reactivity-0; Special--

Manufacturer's Name:

CHEMCO INDUSTRIES, INC.

Address: 5731 Manchester Ave

St. Louis, MO 63110

HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-A

DOT Hazard Classification: ORM-D

Identity (trade name as used on label):

CHEMCO INSECT REPELLENT II

Date Prepared: January 05, 2006

NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

Information Calls: (314) 647-1888

EMERGENCY RESPONSE NUMBER: 1(800)

854-4236

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ISOBUTANE / PROPANE BLEND	75-28-5	No	800	800	d
74-98-6	No	1000	1000		d
ISOPROPANOL	67-63-0	No	400	400	d
ACETONE	67-64-1	No	1000	750	d
Insecticide Concentrate Including:					
DEET	134-62-3	No	N/E	N/E	d
DI-N-PROPYL ISOCINCHOMERONATE	136-45-8	No	N/E	N/E	d
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	No	N/E	N/E	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A

Specific Gravity (H₂O=1): Concentrate Only = .860

Vapor Pressure: PSIG @ 70°F (Aerosols): Max.

Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A

60

Vapor Density (Air = 1): N/E

Evaporation Rate (= 1): N/E

Solubility in Water: Partial

Water Reactive: No

Appearance and Odor: Clear spray with ethereal odor.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME

Auto Ignition

Flammability Limits in Air by % in Volume:

PROJECTION TEST (aerosols) **FLAMMABLE**

Temperature

% LEL: N/E % UEL: N/E

N/E

FLASH POINT AND METHOD USED (non-

EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water spray or fog.

aerosols): N/A

SPECIAL FIRE FIGHTING PROCEDURES: Self-

contained breathing apparatus.

Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [] UNSTABLE

HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR

Incompatibility (Mat. to avoid): Strong oxidants, anhydride & isocyanate, plastics, acetate & rayon.

Conditions to Avoid: Open flame, welding arcs, heat, sparks.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS

ACUTE EFFECTS:

Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.

Eye Contact: Mild irritation. (Avoid eye contact).

Skin Contact: May aggravate existing skin conditions.

Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.

CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) May cause kidney or liver damage (lab animal data).

Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.

Note: MUST follow label instructions closely if used on children.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: Wash with soap and water. If irritated, seek medical attention.

Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.

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Ingestion: DO NOT INDUCE VOMITING. Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): None, if vapor concentration kept below TLV.

Protective Gloves: None

Eye Protection: Safety glasses recommended. Do not spray into eyes.

Ventilation Requirements: Local exhaust to keep vapors dispersed.

Other Protective Clothing & Equipment: None

Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.

Other Precautions &/or Special Hazards: **KEEP OUT OF REACH OF CHILDREN.** Avoid food contamination. Avoid breathing vapors. Remove ignition sources. Avoid contact with plastic such as eyeglass frames and such fabrics as acetate and rayon.

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** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only