

----- MATERIAL SAFETY DATA SHEETS -----

IDENTITY (As Used on Label and List):

**AEROTECH with NYGUARD IGR 47000-147**

DATE PREPARED: February 28, 2007

SECTION I

MANUFACTURER'S NAME: CHEM-TECH, LTD.  
4515 FLEUR DR.#303  
DES MOINES, IA 50321

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 CHEMTREC  
TELEPHONE NUMBER FOR INFORMATION: 515/287-6778

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
Pyrethrin CAS#: 8003-34-7	5mg/m <sup>3</sup> Other limits recommended: None	Unknown	0.7
Piperonyl Butoxide, Tech CAS#: 51-03-6	50 mg/m <sup>3</sup> Other limits recommended: None	Unknown	5.0
Petroleum Oil CAS#: 64742-65-7	Unknown Other limits recommended: None	Unknown	>5.0
Carbon Dioxide CAS#: 124-38-9	5000 ppm Other Limits recommended: None	5000 ppm	>70
Pyriproxyfen (Nylar/Nygaard) CAS#: 095737-68-1	NE Other Limits recommended: None	NE	0.2

\*NE= None Established

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to Know Act of 1986 and of 40 CFR 372:

CAS #	CHEMICAL NAME	% BY WEIGHT
51-03-6	Piperonyl Butoxide Tech	5.0%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING POINT:** Liquid under pressure N/A  
**VAPOR PRESSURE:** (PSIG) Liquid under pressure 856@70 deg F  
**VAPOR DENSITY (AIR = 1):** 1.53  
**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.9 **MELTING POINT:** N/A  
**EVAPORATION RATE (Butyl Acetate = 1):** >1  
**SOLUBILITY IN WATER:** N/A  
**APPEARANCE AND ODOR:** Liquid is clear to light amber in color.  
Mild chemical odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (Method Used):** Non-flammable  
**FLAMMABLE LIMITS:** None LEL: UEL:  
**EXTINGUISHING MEDIA:** CO<sub>2</sub>, dry chemical, or halocarbon  
**SPECIAL FIRE FIGHTING PROCEDURES:** If containers have exploded or product is in contact with fire, stay away from immediate area. If necessary to enter area wear protective clothing and self contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers will explode in extreme heat or fire. Keep cool with water.

SECTION V - REACTIVITY DATA

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Excessive heat or open flames.  
**INCOMPATIBILITY (Materials to Avoid):** Strong oxidizing agents.  
**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** May liberate Carbon Monoxide.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** None under normal conditions.

SECTION VI - HEALTH HAZARD DATA

**ROUTE(S) OF ENTRY:** **INHALATION?** Yes, **INGESTION?** Yes, **SKIN?** Yes  
**HEALTH HAZARDS (Acute and Chronic):** Vapor is heavier than air and **may displace oxygen supply for breathing.** Affected persons should be immediately moved to uncontaminated area and inhale fresh air. Apply artificial respiration if indicated.  
**CARCINOGENICITY:** Not known to be carcinogenic.  
NTP? Unknown IARC MONOGRAPHS? Unknown  
OSHA REGULATED? Unknown  
**SIGNS AND SYMPTOMS OF EXPOSURE:** Low concentrations of carbon dioxide cause increased respiration and headache leading to signs of oxygen deficiency.  
**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known. Possible aggravation of pre-existing respiratory problems.  
**EMERGENCY AND FIRST AID PROCEDURES:**  
**EYES:** Flush with water for 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Contact physician if irritation persists.  
**SKIN:** Wash contaminated area with plenty of soap and water. Clothing and footwear should be decontaminated before reuse or discarded.  
**INHALATION:** Remove to fresh air, respire and/or give oxygen if necessary.  
**INGESTION:** Contact a physician or poison control center immediately.

Never give anything by mouth to unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Toxic to fish, birds, and other wildlife. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency. **NEUTRALIZING CHEMICALS---**Strong alkali solution.  
**WASTE DISPOSAL METHOD:** Do not contaminate water, food or feed by storage or disposal. Store containers in a secure area under lock and key. Storage area should be equipped to handle an accidental spill if necessary.  
**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If the contents cannot be disposed of by use according to label instructions, return to manufacturer.  
**CONTAINER DISPOSAL:** Return empty cylinders for reuse.  
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Do not puncture. Do not use or store near heat or open flame. Exposure to temperatures above 130 deg F may cause bursting. Never throw containers into fire or incinerator. Store in original labeled container in cool, dry, secure area.  
**OTHER PRECAUTIONS:** **Read label. KEEP OUT OF REACH OF CHILDREN. FOR USE ONLY BY QUALIFIED PEST CONTROL OPERATORS OR SERVICE PERSONS.**

(OVER)

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**SECTION VIII - CONTROL MEASURES**  
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**RESPIRATORY PROTECTION (Specify Type):**

Organic solvent or pesticide vapor effective, or jointly approved by NIOSHA or MSHA, or self contained breathing apparatus.

**VENTILATION:**

LOCAL EXHAUST: Yes

MECHANICAL (General): Yes

OTHER: Do not use in confined spaces without proper protective clothing, impervious gloves and self contained breathing gear.

SPECIAL: Negative pressure exhaust in work area.

**PROTECTIVE GLOVES:** Gloves of Impervious material.

**EYE PROTECTION:** Goggles, full face shield or chemical splash goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Rubber apron or impervious clothing.

**WORK/HYGIENIC PRACTICES:**

Do not wear shoes or clothing from work place to eating area or home.

Wash hands before eating or smoking.

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**DOT Classification:** Insecticide Gases, N.O.S. (carbon dioxide, pyrethrin), 2.2, UN1968.

**DOT LABELING:** Non-Flammable Gas.

**NFPA:** 1-0-0

**HMIS:** 1-0-0