

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: May 14, 2012

Hi-Yield® Thuricide Concentrate

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield Thuricide Concentrate
EPA NO: 70051-65-7401
CHEMICAL CLASS: Biological Insecticide
ACTIVE INGREDIENT: Bacillus thuringiensis
EPA SIGNAL WORD: CAUTION
CAS NO.: 68038-71-1

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. COMPOSITION /INFORMATION ON INGREDIENTS:

INGREDIENTS:	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA Carcinogen
Surfactant	Not Established	Not Established	2/mg/m3(Stel=6 mg/m3)*	No
Sodium Sulfate Solvent	15/mg/m3(Total Dust) 1,000 ppm	10mg/m3(Total Dust) 1,000 ppm	Not Established Not Established	No IARC, (Unassigned)
Bacillus thuringiensis (0.8%) *recommended by manufacturer	Not Established	Not Established	Not Established	No

3. HAZARDS IDENTIFICATION:

Notes to Physician: There is no specific antidote if this product is ingested. If a large amount has been ingested emesis is inadequate, lavage stomach. Treat symptomatically.

Symptoms of Acute Exposure: Exposure may result in eye irritation. A skin sensitization(allergic) reaction may occur in sensitive individuals.

Hazardous Decomposition Products: None Known.

Physical Properties:

Appearance: Green Liquid

Odor: Slight Fish Odor

Unusual Fire, Explosion and Reactivity Hazards: None Known.

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4. FIRST AID MEASURES:

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given:

- Ingestion:** If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.
- Eye Contact:** Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
- Skin Contact:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician.

There is no specific antidote if this product is ingested.
If a large amount has been ingested and emesis is inadequate, lavage stomach.
Treat symptomatically.

5. SPECIAL FIRE FIGHTING MEASURES:

- Fire and Explosion:**
- | | |
|---|----------------------------------|
| FLASH POINT(Test Method): | Not Available |
| FLAMMABLE LIMITS(% in Air): | Lower: %; Upper: % Not Available |
| Autoignition Temperature: | Not Available |
| Flammability: | Not Applicable |
| UNUSUAL FIRE,EXPLOSION and REACTIVITY HAZARDS: | None Known |

- IN CASE OF FIRE:** Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human Exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES:

IN CASE OF SPILL OR LEAK:

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and NIOSH-approved chemical cartridge pesticide respirator with organic vapor pre-cartridges or a supplied-air respirator. For small spills, cover with an absorbent material such as pet litter, Sweep up, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

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7. HANDLING AND STORAGE:

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

INGESTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.
EYE CONTACT: To avoid eye contact, wear safety glasses with side shields or chemical goggles.
SKIN CONTACT: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
INHALATION: To avoid breathing mist or vapors, wear a NIOSH-approved chemical cartridge pesticide respirator with organic vapor pre-cartridges or a supplied-air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Green Liquid
Odor: Slight Fish Odor
Melting Point: Not Applicable
Boiling Point: 212°F
Specific Gravity/Density: 1.01
pH: 4.8-5.2
Solubility in H₂O:
Bacillus thuringiensis: Not Available
Vapor Pressure:
Bacillus thuringiensis: Not Available

10. STABILITY AND REACTIVITY:

REACTIVITY:
Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known

HAZARDOUS DECOMPOSITION PRODUCTS

None Known

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY/IRRITATION STUDIES:

Ingestion:	Slightly toxic Oral LD50 (Rat)	>7.2E+10 CFU/kg
Dermal:	Slightly toxic Dermal LD50 (Guinea Pig):	>1.8E+07 CFU/kg
Inhalation:	Slightly toxic Inhalation LC50 (Mouse)	>3300000000 CFU/Liter
Eye Contact:	Non-irritation (Rabbit)	
Skin Contact:	Slightly irritating (Rabbit)	
Skin Sensitization:	Not Available	

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MUTAGENIC POTENTIAL:

Bacillus thuringiensis: None Observed

REPRODUCTIVE HAZARD POTENTIAL:

Bacillus thuringiensis: Not Available

CHRONIC/SUBCHRONIC TOXICITY STUDIES:

Bacillus thuringiensis: Not Available

CARCINOGENIC POTENTIAL:

Bacillus thuringiensis: Not Available

OTHER TOXICITY INFORMATION:

Not Available

TOXICITY OF OTHER COMPONENTS:

Solvent: Exposure results in skin, eyes or respiratory tract irritation. Prolonged inhalation may result in nausea, headache, vomiting and central nervous system depression. Listed a IARC carcinogen which has not been assigned and overall evaluation (animal data is not adequate).

Surfactant: Repeated or prolonged inhalation of dust can cause irritation of nose, throat and lungs. Exposure can result in headache, nausea, dizziness and slight irritation to eyes and skin.

TARGET ORGANS:

ACTIVE INGREDIENTS:

Bacillus thuringiensis: Not Available

INERT INGREDIENTS:

Solvent: Eyes, Skin, Respiratory Tract and Central Nervous System

Surfactant: Eyes, Skin and Respiratory Tract

12. ECOLOGICAL INFORMATION:

SUMMARY OF EFFECTS:

Bacillus thuringiensis: Low toxicity to fish and wildlife

Eco-Acute Toxicity:

Bacillus: Bobwhite Oral LD50 >16,665 mg/kg

Thuringiensis: Mallard Oral LD50 >16,665 mg/kg

Eco-Chronic Toxicity:

Bacillus thuringiensis: Invertebrate(daphnia magna) Life Cycle NOEL 1.6E08 CFU/L

Environmental Fate

Bacillus thuringiensis: Not Available

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13. DISPOSAL CONSIDERATIONS:

DISPOSAL: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

15. REGULATORY INFORMATION:

SARA TITLE III CLASSIFICATION:

Section 311/312:	Acute Health Hazard Chronic Health Hazard
Section 313 Chemical(s):	Not Applicable

PROPOSITION 65: Not Applicable

CERCLA REPORTABLE QUANTITY (RQ) None

RCRA CLASSIFICATION: Not Applicable

TSCA STATUS: Exempt from TSCA

16. OTHER INFORMATION:

NFPA HAZARD RATINGS:

Health:	1	0 Least
Flammability:	0	1 Slight
Reactivity:	0	2 Moderate
		3 High
		4 Severe

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 way shall Voluntary Purchasing Groups, inc. 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 Voluntary Purchasing Groups, Inc. has been advised of the possibility of such damages.