

# Y-TEX CORPORATION

## Material Safety Data Sheet

PRODUCT NAME: GardStar 40% EC Livestock & Premise Insecticide  
EPA Reg. No. 39039-8

### SECTION 1 -

Manufacturer's

Name	Y-TEX Corporation	
Address	1825 Big Horn Ave., PO Box 1450	Emergency Telephone No. 800-255-3924 CHEM-TEL, INC.
City, State, and ZIP	Cody, WY 82414	Other Information Calls 800-443-6401, 307-587-5515 (Y-TEX)
Date Prepared	12-22-94	Date Revised 3-15-99

### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	CAS No.	%(Optional)
<b>ACTIVE INGREDIENTS:</b> Permethrin (3-phenoxyphenyl) methyl (±)-cis, trans,-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-carboxylate*		52645-53-1	40.0%
<b>OTHER INGREDIENTS, including:</b> Petroleum Distillate		64742-47-8	60.0% >40.0%

\*Cis/trans ratio: Min 35% (±) cis and Max. 65% (±) trans

### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Not Applicable	Specific Gravity (H <sub>2</sub> O=1)	1.01	Vapor Pressure (mm Hg)	Not Applicable
Vapor Density (Air=1)	Not Applicable	pH	Neutral (6.6 - 7.5)	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water	Not Applicable	Solubility in solvent/oil (specified)	Not Applicable	Viscosity	5.2 cps
Appearance and Odor	Medium to dark amber liquid Moderate aromatic odor	Melting Point	Not Applicable	Miscibility (25°C)	Miscible with most polar & nonpolar solvents
Packing (Bulk) Density (lb/gal)	Not Applicable	Dust Explosion Severity Data	Not Applicable	Minimum Ignition Energy (MJ)	Not Applicable
Minimum Explosion Concentration (MEC)	Not Applicable	Limited Oxygen Concentration (LOC)	Not Applicable		

### SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	115° F. 46° C.	Method Used	TCC	Flammable Limits n Air % by Volume	LEL Lower NA	UEL Upper NA
Auto-Ignition Temperature	Not Applicable	Extinguisher Media	Carbon Dioxide, Dry Chemical, Foam or Water			

**Special Fire Fighting Procedures** Wear self-contained breathing apparatus pressure demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

**Flammability Classification/Rating:** NFPA/OSHA Class: II  
NFPA Rating (Fire): 2

**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability	Unstable	Ž	Conditions	Heat
	Stable	■	to Avoid	
Incompatibility (Materials to Avoid)	Strong oxidizing agents			
Hazardous Decomposition Products	None known			
Hazardous Polymerization	May Occur	□	Conditions	
	Will Not Occur	■	to Avoid	

**SECTION 6 - HEALTH HAZARDS (SIGNAL WORD: DANGER)**

1. **Acute** Oral LD<sub>50</sub> (male rat): 1790 mg/kg (slightly toxic). Oral LD<sub>50</sub> (female rat): 1290 mg/kg (slightly toxic). Oral LD<sub>50</sub> (combined rat): 1490 mg/kg (slightly toxic). Inhalation: 4 hour LC<sub>50</sub> > 2.31 mg/l (practically non-toxic). Dermal: Irritation (rabbit): moderately irritating (primary irritation index = 3.13); Absorption (rat): LD<sub>50</sub> > 5,000 mg/kg (practically non-toxic); Sensitization (guinea pig): non-sensitizing. Eye effects: (rabbit) Corrosive.

2. **Chronic** (Cancer information) A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin over 85 weeks. Teratogenicity (Birth Defects): Permethrin is not considered to be teratogenic based on rat studies. Mutagenicity (Genetic Effects): Permethrin did not produce any mutagenic effects when tested in the Ames test.

Signs and Symptoms of Exposure Normal use produces no apparent abnormal symptoms.

Medical Conditions Generally Aggravated by Exposure	None known			
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
				OSHA Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

**NOTE TO PHYSICIAN** This product contains a pyrethroid and a petroleum solvent. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered. Do not administer milk,

cream

or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.

**ROUTES**

1. **Inhalation** Remove affected person to fresh air. Apply artificial respiration if indicated.

2. **Eyes** Corrosive. Causes irreversible eye damage. Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**OF**

3. **Skin** Causes moderate skin irritation. Wash with plenty of soap and water. Get medical attention if irritation persists.

**ENTRY**

4. **Ingestion** Harmful if swallowed. Call a doctor or get medical attention. Do not induce vomiting. This product contains petroleum distillate. Aspiration may be a hazard. Drink promptly a large

quantity

of skimmed milk, egg white, gelatin solution, or, if these are not available, large quantities of

water

Do not give anything by mouth to an unconscious person. Avoid alcohol.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES/DISPOSAL**

**Precautions to be Taken in Handling and Storage** Do not get in eyes or on clothing. Avoid contact with skin. Do not store near heat or open flame. Do not contaminate water, food or feed by storage. Store upright at room temperature. Avoid exposure to extreme

temperatures. Do not store near heat or open flame.

For eye contact, get medical attention

**Other** Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**Precautions** In case of contact, immediately flush skin and eyes with plenty of water. If skin irritation develops, call a physician.

**Steps to be Taken in Case** **Small spills:** Absorb with an inert absorbent material such as granular clay, saw dust, or pet litter. Sweep up

**Material is Released or Spilled** carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers. **Large Spills:** Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. Dike far ahead of liquid spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs. Contact CHEM-TEL for further assistance if necessary.

**Waste Disposal** Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent

**Methods** (Consult federal, state, and local regulations) and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, State/Provincial, and local regulations (see Section 7 for applicable RCRA number). Refer to Section 11 for applicable Reportable Quantity (RQ) and other regulatory requirements.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES/DISPOSAL (Continued)**

**Waste Disposal** Do not contaminate water, food or feed by disposal. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. **Methods (Continued)** Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. **Container Disposal:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures. **RCRA INFORMATION:** RCRA HAZARDOUS WASTE INGREDIENT: None

**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

**Engineering Controls** Control airborne concentrations below the appropriate exposure guideline (see Section 2 for applicable OSHA/ACGIH Exposure Limits). Local exhaust ventilation may be necessary.

**Respiratory Protection** Ensure good ventilation. If not adequate, use a chemical cartridge-type respirator approved by the National Institute of Occupational Health and Safety.

**Protective Gloves** Wear chemical-resistant gloves (Neoprene, Nitrile, PVC) and other protective clothing to avoid skin contact. **Eye Protection** Wear safety glasses, splash goggles or face shield.

**Other Protective Clothing or Equipment** None required **Work/Hygienic Practices** See Section 7

**SECTION 9 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL PRECAUTIONS:** This product is extremely toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**SECTION 10 - TRANSPORT INFORMATION**

**PROPER SHIPPING NAME:** Flammable liquid, n.o.s. (Petroleum distillate)  
**HAZARD CLASS:** 3, PG III  
**DOT IDENTIFICATION NUMBER:** UN1993  
**DOT SHIPPING LABEL:** Flammable Liquid

**NOTE:** For inner packagings which contain quantities equal to or less than 1.3 gallons (5 liters), use the following Limited Quantities Excepted shipping description:

Flammable liquid, n.o.s., (Petroleum Distillate), 3, UN1993, PGIII, Limited Quantity, \*.  
 \* insert net volume

Or, use: ORM-D "Consumer Commodity" as described in 49 CFR 173.150(c) for retail package sizes of 4 fl. oz. and 1 quart.

No flammable liquid labels are required (except if shipped by air), no special packagings or placards are required.

**NOTE:** For transport purposes (49 CFR Part 173.132), the calculated 1-hour LC<sub>50</sub> (rat) is: 9.24 mg/l.

**SECTION 11 - REGULATORY INFORMATION****U.S. FEDERAL REGULATORY INFORMATION**

**EPA Registration Number:** 39039-8  
**TSCA Inventory:** Registered pesticide, exempt from TSCA  
**Section 302 (EHS) ingredients:** None  
**Section 304 (CERCLA & EHS) ingredients (RQ):** None

**SARA TITLE III NOTIFICATIONS AND INFORMATION**

**SARA Title III - HAZARD CLASSES:**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release Pressure Hazard	No
Reactivity Hazard	No

**SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION**

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 (EPCRA) of 1986 and of 40 CFR 372.27 (This information must be included on all MSDSs that are copied and distributed for this material).

CAS NUMBER	INGREDIENT NAME	PERCENT BY WEIGHT
52645-53-1	Permethrin	40%

**SECTION 11 - REGULATORY INFORMATION (Continued)**

REGULATED INGREDIENTS

Ingredient:	Permethrin	Regulations:	Massachusetts Hazardous Substance
CAS Number:	52645-53-1		New Jersey Workplace Hazardous Substance
Percent by Weight:	40%		SARA Section 313 Toxic Chemical

U.S. STATE REGULATORY INFORMATION

CALIFORNIA (Proposition 65): This product does not contain any chemical which is known to the State of California to cause cancer or birth defects or other reproductive harm.

CANADIAN REGULATORY INFORMATION

CPC Number: None

WHMIS Classification for Control Product Regulations (CPR): Registered pesticide under US FIFRA regulations; exempt from CPR classification.

The MSDS contains all CPR required hazard-related information

WHMIS HAZARD RATING: See HMIS rating (Section 16)

**SECTION 12 - OTHER INFORMATION**

HMIS HAZARD RATING	- HEALTH	1 Slight
	- FIRE	2 Moderate
	- REACTIVITY	0 Negligible
	- PROTECTION	B

NFPA HAZARD RATING	- HEALTH	1 Slight
	- FIRE	2 Moderate
	- REACTIVITY	0 Negligible
	- SPECIAL	-

Prepared by:	Regulatory Department	Phone:	307-587-5515
Supersedes MSDS dated:	February 17, 1999	Date:	March 15, 1999

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.