

SECTION 1: PRODUCT and COMPANY IDENTIFICATION

Product Name: **GardStar® 40% EC Livestock and Premise Insecticide** Date Prepared: 12/22/94
 USA EPA Reg. No.: 39039-8; USA Establishment No.: 39578-TX-1 Date Revised: 7/26/16

Y-TEX Corporation For Health Safety Emergency Only, Call CHEM-TEL, Inc. (24 hours): 1-800-255-3924 US
 1825 Big Horn Ave. 813-248-0585 International
 Cody, WY 82414 Other Information Calls: 800-443-6401, 307-587-5515 (Y-TEX), (7:30am – 4:30pm MDT, Monday-Friday)

General Use: An emulsifiable insecticide concentrate for Agricultural/Commercial Use and Vector Control Agency, Pest Control Operators Only

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200], and the GHS

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Acute Toxicity: Category 4 (Oral) Category 4 (Inhalation Dusts/Mists) Skin corrosion/irritation: Category 2 Skin Sensitization: Category 1 Aspiration Hazard: Category 1	Acute Hazards to the Aquatic Environment, Category 1	Combustible Liquid: Category 4

GHS LABEL:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

Symbols: Health hazard, Exclamation - Acute Toxicity, Environmentally hazardous substance

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
DANGER H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	PREVENTION: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No Smoking P261 Avoid breathing mist, vapors or spray. P264 Wash face, hands and any exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective chemical-resistant gloves, shoes and socks, long pants and a long-sleeved shirt. RESPONSE: P301+P310 IF SWALLOWED: IMMEDIATELY call a poison control center or doctor for treatment advice. P330 Rinse mouth. P331 Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P313+P333 If skin irritation or rash occurs, get medical advice/attention P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P321 Specific treatment (see Section 4/First Aid). P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use CO ₂ , dry chemical or foam for extinction. STORAGE: P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. DISPOSAL: P501 Dispose of contents/container to an approved waste disposal facility.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients:</u>	Concentration (w/w)		CAS Number
	%	g/kg	
Permethrin	40.0%	400	52645-53-1
Petroleum Distillate	10-20%*	100-200	64742-47-8

*The exact percentage (concentration) of composition has been withheld as a trade secret.

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: FIRST AID MEASURES

Aspiration pneumonia hazard: May be fatal if swallowed and enters airways.

EYES: Hold eye open and rinse slowly and gently with water for 15-20 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: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give **any** liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIANS: For skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

SECTION 5: FIRE FIGHTING MEASURES**Flammable Class:** OSHA – COMBUSTIBLE LIQUID**Extinguishing Media:** Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.**Caution:** Use of water spray when fighting fire may be inefficient.**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide (CO₂), and Hydrogen Chloride.**Specific hazards arising from the chemical:** In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition.**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) along with full protective gear. Keep nearby containers and equipment cool with a water stream.**SECTION 6: ACCIDENTAL RELEASE MEASURES****METHODS FOR CONTAINMENT:** Remove/shut off all sources of ignition. Stop or prevent further leakage or spillage, if safe to do so.**METHODS FOR CLEANING UP:** Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.**PERSONAL PRECAUTIONS:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.**ENVIRONMENTAL PRECAUTIONS**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

SECTION 7: HANDLING AND STORAGE**KEEP OUT OF REACH OF CHILDREN****HANDLING:** Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.**READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL****STORAGE:** Keep container tightly closed in a cool, dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Always store pesticides in the original or properly labeled container. Place liquid formulations on lower shelves, and dry formulations above. For more information, see product label.**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****EXPOSURE GUIDELINES:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.**ENGINEERING CONTROLS:** Safety showers; Eyewash stations; Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.**PERSONAL PROTECTIVE EQUIPMENT****EYE/FACE PROTECTION:** Tight sealing safety goggles. Face protection shield.**SKIN & BODY PROTECTION:** Wear protective gloves and protective clothing, such as a long-sleeved shirt and long pants, shoes and socks.**RESPIRATORY PROTECTION:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.**GENERAL HYGIENIC CONSIDERATIONS:** When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid	Odor:	Slight solvent smell	Odor threshold:	Not available
Appearance:	Dark, Amber (Gardner color scale: 9.5)	pH:			5.93 @ 5% in water
Flashpoint and Method:	77.8°C (172°F) TAG Closed Cup	Vapor Density (Air = 1):			Heavier than air
Boiling Point:	Not Available	Freezing Point:			Not Available
Melting Point:	Not Available	Solubility in Water:			Partially miscible in water
Evaporation Rate:	Not Available	Miscibility/Solubility:			Alcohol, petroleum distillates, aromatic solvents, miscible
Partition coefficient; n-Octanol/Water:	6.5 (Permethrin)	Vapor Density:			Heavier than air
Density:	1.026 g/cm ³ at 20°C	Dynamic Viscosity:			44.17 cPs at 23°C
Specific Gravity (H ₂ O = 1):	Not available	Refractive Index (@ 25°C (77°F):			Not available
VOC Content (%):	36.5				

SECTION 10: STABILITY AND REACTIVITY**Reactivity:** No data available**Chemical Stability:** Stable under recommended storage conditions**Hazardous Polymerization:** Does not occur**Conditions to Avoid:** Heat, flames and sparks.**Incompatible Materials:** Not compatible with strong acids or bases. Not compatible with oxidizing agents.**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide (CO₂), Hydrogen chloride**SECTION 11: TOXICOLOGICAL INFORMATION****Acute Effects:****Eyes:** Mild eye irritation, clearing within 72 hours (albino rabbits).**Skin:** Acute dermal LD₅₀>5000 mg/kg (rabbit). Skin irritant: Moderate irritation at 72 hours. Produced a primary skin irritation index of 2.3

Skin sensitization: Positive (guinea pig)

Ingestion: Acute oral LD₅₀ 310.2 mg/kg (rat)**Inhalation:** LC₅₀ >2.05 mg/L (rat; 4 hours)**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.**General Comments:** No information available for reproductive toxicity (developmental toxicity), teratogenicity (STOT - single or repeated exposure) or neurological effects.**Chronic toxicity:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION:**

Ecotoxicity: Persistence and degradability – no information available
Bioaccumulation – no information available
Other adverse effects – no information available

ENVIRONMENTAL HAZARDS (EPA):

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

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 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

EMPTY CONTAINER: Non-refillable container. DO NOT reuse or refill this container. Triple rinse (or equivalent) promptly after emptying.

Triple-rinse as follows for containers less than <5 gallons (<18.9L): Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Triple-rinse as follows for containers greater than >5 gallons (>18.9L): Empty the remaining contents into application equipment or a mix-tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

SECTION 14: TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid

PRIMARY HAZARD CLASS/DIVISION: Non-Hazardous

OTHER SHIPPING INFORMATION: This material is **not** regulated by the DOT as a hazardous material when shipped in Non-bulk quantities (i.e., less than 119 Gallons / 450 liters)

When shipping in Bulk quantities (i.e., more than 119 gallons / 450 liters), please contact Y-TEX for the proper shipping description.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid

PRIMARY HAZARD CLASS/DIVISION: Non-Hazardous

Note: Not considered hazardous by IATA/ICAO regulations for transportation via air.

VESSEL (IMO/IMDG): Not Available

SECTION 15: REGULATORY INFORMATION**UNITED STATES**SARA 311/312 Hazard

FIRE: Yes

PRESSURE GENERATING: No

REACTIVITY: No

ACUTE Health: Yes

Chronic Health: No

SARA 313 REPORTABLE INGREDIENTS:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name

CAS #

SARA 313 Threshold Values %

Permethrin

052645-53-1

1.0%

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. STATE REGULATIONS: California Proposition 65: This product does not contain any Proposition 65 chemicals

Difference between SDS and U.S. EPA FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT) label:

Note: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. Following is the hazard information as required on the pesticide label:

HAZARDS TO HUMANS & DOMESTIC ANIMALS – WARNING - May be fatal if swallowed. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 15: REGULATORY INFORMATION (continued)

INTERNATIONAL/Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	Complies
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List	Does not comply
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	Complies
ENCS	Japan Existing and New Chemical Substances	Complies
IECSC	China Inventory of Existing Chemical Substances	Does not comply
KECL	Korean Existing and Evaluated Chemical Substances	Does not comply
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Does not comply
AICS	Australian Inventory of Chemical Substances	Complies

SECTION 16: OTHER INFORMATION

USA EPA Reg. No.: 39039-8; USA Establishment No.: 39578-TX-1

Revision date: 7/26/16

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Y-TEX Corporation makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will Y-TEX Corporation be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.