

Material Safety Data Sheet

Martin's Commercial Fogging Spray

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Martin's Commercial Fogging Spray
EPA REGISTRATION NUMBER:	73049-90-53883
CHEMICAL NAME:	Mixture; a.i.'s, resmethrin
PRODUCT DESCRIPTION:	A synthetic Pyrethroid for controlling flying and crawling insects. Can be used in edible product areas of official establishments operating under the meat, poultry, shell egg grading and egg products inspection programs.
MANUFACTURER:	Control Solutions, Inc., 5903 Genoa-Red Bluff, Pasadena, TX 77507, 281-892-2500 (M-F, 8am-5pm)
EMERGENCY TELEPHONE NUMBERS:	Poison Control Center 800-222-1222 In case of spill call: CHEMTREC 1-800-424-9300

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name (CAS #) [Chemical Name]	Weight Percent	Exposure Limit	Ref.
Resmethrin (10453-86-8)* [5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate * Active Ingredient -Synthetic Pyrethroid	= 0.20	None established	
Inert Ingredients Containing:	= 99.80		
Petroleum Hydrocarbon (8008-20-6)	< 99.60	200 mg/m ³ (non aerosol)	ACHIH TWA
Ethyl Benzene (100-41-4)	0.1-1 %	435 mg/m ³	ACGIH TWA
Naphthalene (91-20-3)	0.1 – 1%	50 mg/m ³	ACGIH TWA

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

A CLEAR TO LIGHT YELLOW LIQUID

CAUTION:

- HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN
- TOXIC TO FISH
- COMBUSTIBLE

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Inhalation, ingestion, eye and skin contact

Signs and Symptoms of Systemic Effects: Irritating to skin. Stuffy or runny nose, scratchy throat and localized sensitization. May cause lung damage if swallowed, gastrointestinal effects such as nausea, vomiting and diarrhea. Inhalation of high vapor or mist concentrations can cause central nervous system effects (drowsiness, dizziness, nausea, headaches and loss of consciousness) including death.

Eye: Slightly irritating.

Skin: Moderately irritating. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping and reddening.

Ingestion: Harmful or fatal if swallowed. Ingestions of small quantities are usually nonfatal unless aspiration occurs. If aspiration occurs during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death

Inhalation: Harmful or fatal if inhaled in excess.

SECTION 4: FIRST AID MEASURES

EMERGENCY NUMBERS

Poison Control 800-222-1222

CHEMTRAC 1-800-424-9300

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: 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.

INHALATION: Move 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.

NOTES TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

HINTS FOR THE PHYSICIAN: This product contains a Pyrethroid. If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy.

Do not administer milk, cream or other substances containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 140°F **METHOD:** TCC **AUTOIGNITION:** NA

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, or Water

FLAMMABLE LIMITS (% by volume in air): Lower: NA Upper: NA

FIRE AND EXPLOSION HAZARDS: Combustible. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and ignite. Material can accumulate static charges, which may cause an incendiary electrical discharge. Do not use or store near heat or open flame.

FIRE FIGHTING INSTRUCTIONS: As in any fire, 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.

HAZARDOUS COMBUSTION PRODUCTS: May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Flammable: Remove all sources of ignition if safe to do so. Evacuate area.

Ventilate area. Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

GENERAL AND DISPOSAL: Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial, and local regulations (See Section 13 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

SPILL OR LEAK

CONTAINMENT:

Small Spills: Soak up liquid with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. and dispose of in trash. Place in an approved chemical waste container for disposal. Where possible drum should be oriented to prevent further leakage. Drum should be placed in a spillage drum for further movement or transport. Do not allow spill material to enter any body of water.

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.

CLEANUP:

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.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing mist. Cover or remove exposed foods. Avoid contamination of cooking utensils and food preparation surfaces. Remove pets and cover fish aquariums before spraying. Do not allow dogs or cats to re-enter treated areas until spray deposits have dried.

Do not use near heat or open flame. Extinguish open flame before space spraying. Material is a static accumulator.

STORAGE PRECAUTIONS:

Store product in original container in a locked storage area. Do not store near heat or open flame. Store at room temperatures above 32°C.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Not required with normal use, unless label directs otherwise.

RESPIRATION/VENTILATION: Use in a well ventilated area. Vacate premise during use and ventilate before reoccupying.

SKIN PROTECTION: Not required with normal use, unless label directs otherwise.

OTHER/GENERAL PROTECTION: Avoid contamination of feed and foodstuffs. Wash all food processing surfaces after treatment. Do not use in facility when in operation. Remove pets, birds and cover fish aquariums before spraying.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, light yellow
ODOR:	Petroleum/Solvent
PHYSICAL STATE:	Liquid
SOLUBILITY (H₂O):	Negligible
pH:	NA
DENSITY/SPECIFIC GRAVITY	ND
VISCOSITY	ND

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat and sources of ignition.

INCOMPATIBILITY: Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

OXIDATION/REDUCTION PROPERTIES: Product does not have the potential to act as a strong oxidizing or reducing agent.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information): No acute toxicity data is available for this formulation. Acute toxicity has been completed on a similar formulation with comparable levels of resmethrin.

Oral Toxicity LD₅₀ (rat):	3450 mg/kg	EPA Tox Category III
Dermal Toxicity LD₅₀ (rabbit):	> 2,020 mg/kg	EPA Tox Category III
Inhalation Toxicity LC₅₀ (rat):	> 7.02 mg/L	EPA Tox Category IV
Eye Irritation (rabbit):	Slightly irritating	EPA Tox Category IV
Skin Irritation (rabbit):	Moderately irritating	EPA Tox Category III
Skin Sensitization (guinea pig):	Sensitizer	

TOXICITY OF ACTIVE INGREDIENTS: RESMETHRIN:

Exposure levels tested in animals at or near the LD₅₀/LD₅₀ have produced the following symptomology: decreased locomotion, tremors, salivation and erect body hair.

Sub chronic (target organ effects)

The NOEL established for Resmethrin in a 90-day inhalation study was 0.1 $\mu\text{g}/\text{m}^3$. The NOEL was 10 mg/kg/day when dogs were fed diets containing Resmethrin for 180 days.

Chronic Toxicity and Carcinogenicity

Resmethrin did not produce any evidence of toxic effects when fed to rats at concentrations of up to 500 ppm for two years.

Resmethrin was not considered to be oncogenic based on chronic feeding studies conducted in rats and mice.

Reproductive and Developmental Toxicity

A slight increase in the number of pups cast dead and a decrease in pup weights were observed when rats were fed diets containing 500 ppm (lowest dosage tested) or higher of Resmethrin over three successive generations.

Resmethrin is not considered to be teratogenic based on studies conducted in rabbits and rats.

Neurotoxicity

Resmethrin is not considered to be a neurotoxin based on rat feeding studies conducted for up to 32 weeks.

Mutagenicity (Genetic Effects)

Resmethrin is not considered to be mutagenic based on in vitro studies conducted with bacteria and yeast.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:

This product is highly toxic to fish.

OTHER ENVIRONMENTAL INFORMATION:

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated sites may be hazardous to fish in adjacent waters. Do not contaminate water when disposing of equipment wash waters.

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL:

Do not reuse this container. If empty: Place in trash or offer for recycling if available. If over one gallon: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and Local authorities.

RCRA INFORMATION

RCRA HAZARDOUS WASTE INGREDIENTS: None

SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Flammable liquids, n.o.s. (Petroleum distillate)

RQ: NA

DOT HAZARD CLASS: 3

UN/NA NUMBER: 1993

PACKAGING GROUP: III

REMARKS: NA

EXEMPTION REQUIREMENT: NA

NOTE: Careful solvent selection could change transport classification.

SECTION 15: REGULATORY INFORMATION

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

EPA Registration Number: 73049-90-53883

OTHER U.S. FEDERAL REGULATIONS:

TSCA Inventory: Registered Pesticide, exempt from TSCA.

SARA TITLE III:

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:

CAS NUMBER	INGREDIENT NAME	PERCENT BY WEIGHT
10453-86-8	Resmethrin	= 0.2%
SARA Title III:	Acute Health Hazard - Yes	
	Chronic Health Hazard - Yes	
	Fire Hazard - Yes	
	Sudden Release of Pressure - No	
	Reactivity Hazard - No	

This information must be included on all MSDSs that are copied and distributed for this material.

REGULATED INGREDIENTS

INGREDIENT: Resmethrin

CAS NUMBER: 10453-86-8

PERCENT BY WEIGHT: = 0.2 %

Regulations: Canadian Domestic Substance List (DSL)
European Inventory of Existing Commercial Substances (EINECS)
State right-to-know: NJ
California Proposition 65 (Development toxin): This product contains a chemical (resmethrin) known to the State of California to cause cancer or birth defects or other reproductive harm.

INGREDIENT: Petroleum Distillate

CAS NUMBER: 8008-20-6

PERCENT BY WEIGHT: < 99.6 %

Regulations: U.S. TSCA Inventory Status
Australian (AICS)
Canadian Domestic Substance List (DSL)
European Inventory of Existing Commercial Substances (EINECS)
State right-to-know: NJ, PA, RI
Containing 0.1 to 1% Naphthalene listed in California Proposition 65 (Development toxin): This product contains a chemical (naphthalene) known to the State of California to cause cancer or birth defects or other reproductive harm.

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities

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: -

RATINGS:

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4).

These values are obtained using professional judgment. Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with the information contained in the product MSDS.

* RQ: Reportable Quantity

** RCRA waste codes must be determined on a case-by-case basis (i.e., spill, processing waste, etc.).

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

SECTION 16: OTHER INFORMATION

REASON FOR ISSUE:	New
REVISION NUMBER:	0
REVISION DATE:	01/27/2005
SUPERSEDES DATE:	NA
EPA REGISTRY NUMBER:	73049-90-53883

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.

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT CONTROL SOLUTIONS, INC. TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

JUDGEMENTS AS TO THE SUITABILITY OF INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES ARE NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, CONTROL SOLUTIONS, INC. EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.