

SpringStar Inc. Safety Data Sheet

Section I: INDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Mosquito Trap-N-Kill®
Mosquito Trap-N-Kill® Refill Kit
Target Insect: various
Toxicant Strip for Outdoor insect traps
Recommended use: Use in dry outdoor insect traps to kill target insect
Item Number: TK71015, TK 71016
Date Issued: April 4, 2014, Revised Oct 10, 2016

COMPANY: SpringStar Inc.
PO Box 2622
Woodinville, WA 98072
425-487-6011

For an emergency or more information call 717-764-1192 or
the National Pesticide Information, 800-858-7378

SECTION II. HAZARDOUS MATERIAL IDENTIFICATION

Hazardous Component	Wt %	Hazard	Signal Word
DDVP	10%	Poison	Warning



Hazard Statement

Acute Toxicity, oral determined via Actue Toxic estimates to be Category 4

Acute Toxicity, dermal – LD50 >5050 mg/kg, Category 5

DDVP is poisonous if swallowed, inhaled or absorbed through skin and eyes. Rapidly absorbed through skin. Repeated inhalation or skin contact may without symptoms, progressively increases susceptibility to DDVP poisoning.

Toxic to fish, birds and other wildlife. Do not contaminate bodies of water.

Precautionary Statements

Potential Health Effects

ROUTES OF ENTRY: Ingestion, inhalation, and absorption through the eye or skin are all possible routes of entry for this active ingredient. Exposure by any of the routes may cause acute cholinesterase depression. Severe cholinesterase depression may be fatal.

SIGNS OF ACUTE OVEREXPOSURE: Acute Cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive seating salivation and tearing,

constricted pupils, blurred vision, tightness in chest weakness, muscle twitching and confusion; in extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur. **SIGNS OF CHRONIC OVEREXPOSURE:** Repeated exposures to small doses of DDVP and other organophosphates may lower the cholinesterase to levels where the above symptoms of acute overexposure are observed.

CARCINOGENICITY: EPA under its 199 proposed Guidelines for Carcinogen Risk Assessment has classified DDVP as having "suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential". IARC lists DDVP (Dichlorvos) as being possibly carcinogenic to humans (Group 2B). **CARE SHOULD BE EXERCISED IN HANDLING DDVP AND ITS FORMULATIONS.**

SECTION III. COMPOSITION & INFORMATION ON INGREDIENTS

ACTIVE

COMMON NAME: DDVP, Dichlorvos
CHEMICAL NAME: Dimethyl 2,2-vinylphosphate
CHEMICAL FAMILY of active ingredient: Organophosphate ester
C.A.S. NUMBER: 62-73-7
FORMULA: $C_4H_7Cl_2O_4P$
CONSTRUCTION: Laminated PVC controlled release dispenser
EPA Reg. No. 8730-50,
Canada Health PCP# 21222

SECTION IV. FIRST AID MEASURES

FIRST AID: ORGANOPHOSPHATE

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice
- Have the person sip a glass of water if able to swallow
- Do not induce vomiting unless told to do so by the poison control center or doctor
- Do not give anything by mouth to an unconscious person

IF IN 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 physician immediately

IF ON SKIN OR CLOTHING

- 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

IF INHALED

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. **NOTE TO PHYSICIAN:** Atropine sulfate is the antidote of choice. You may contact the

SECTION V. FIRE HAZARD INFORMATION

National Pesticide Telecommunications Network at 1-800-858-7378 for emergency medical treatment information. Hours of operation are seven days a week, 6:30 am to 4:30 pm PST

FLASH POINT: N/A

FLAMMABLE LIMITS in air: N/A

EXTINGUISHING MEDIA: Dry chemical, foam, water fog or spray Carbon dioxide, foam

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use air-supplied equipment. Do not inhale fumes. Wear full protective equipment and NIOSH approved pressure demand, self contained breathing apparatus UNUSUAL FIRE AND EXPLOSION HAZARDS: When burned the hazardous decomposition products that will result because of incomplete combustion include carbon monoxide, other unidentified products of hydrocarbon degradation, Nox, low level cyanides and hydrogen chloride.

SECTION VI. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Individual strips that are pouched, pick up and place in a sealed container. If strips are unpouched, and decontamination is warranted, decontaminate the area with dilute ammonia (less than 5% solution) and detergent. Flush the area with water. Absorb the rinse water using an absorbent such as, but not limited to clay, sawdust, straw or kitty litter and sweep into an open drum. Close the drum and dispose as hazardous waste. Do not reuse empty containers. Check with state and local authorities for disposal options.

SECTION VII. HANDLING AND STORAGE

GENERAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in sealed containers in a cool, dry place and away from open flames. To maintain product integrity protect from high temperatures. Keep container closed. Launder contaminated clothing before use. Wear protective equipment described above if exposure conditions warrant. Do not contaminate water sources, food or feed.

SECTION VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Usually none required.

EYE PROTECTION: Usually none required

VENTILATION: Good general ventilation should be sufficient.

PROTECTIVE GLOVES: None required but vinyl, latex or rubber gloves recommended for continuous handling.

OTHER PROTECTIVE EQUIPMENT: None under normal usage.

NOTE: Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: 1" x 4" red strip, older strips may have a shiny wet appearance – use gloves to handle strip.

UPPER/LOWER FLAMMABILITY: N/A

ODOR DESCRIPTION: Mild
VAPOR DENSITY (AIR = 1): N/A
pH: N/A
BULK DENSITY: N/A
MELTING /FREEZING POINT: 3000F MELT
SOLUBILITY IN WATER: Insoluble
BOILING POINT: N/A
FLASH POINT: N/A
EVAPORATION RATE: N/A
VAPOR PRESSURE (200C, mm HG): Not determined
VAPOR DENSITY: N/A
RELATIVE DENSITY: N/A
PARTITION COEFFICIENT: NOT APPLICABLE
AUTO- IGNITION: NOT APPLICABLE
DECOMPOSITION TEMPERATURE: NOT AVAILABLE
VISCOSITY: NOT APPLICABLE
PERCENT ACTIVE IN PRODUCT: 10.0%

SECTION X: STABILITY AND REACTIVITY

REACTIVITY: NONE KNOWN
PRODUCT STABILITY: UNSTABLE STABLE X
HAZARDOUS POLYMERIZATION: May Occur May Not Occur X
CONDITIONS TO AVOID: Do not store near easily ignited chemicals and materials or open flames.
MATERIAL TO AVOID: Strong oxidizing agents HAZARDOUS DECOMPOSITION PRODUCTS: On combustion, the polymeric dispensers may produce CO, CO₂, HCL and CL₂.

SECTION XI TOXICOLOGICAL INFORMATION

ACTIVE INGREDIENT ONLY

INGESTION:	Oral LD50 (rat)	80/56 mg/kg (male/female)
INHALATION:	LC50 (rat)	>198 mg/m ³ (4 hr, head only, vapor)
DERMAL:	Skin LD 50 (rabbit)	205 mg/kg
IRRITATION:	Eye irritation:	Irritant
	Skin irritation	Irritant
SENSITIZATION:	Skin sensitization:	Possible Sensitizer
	(Guinea pig)	

TERATOGENCITY: No evidence of teratogenicity in laboratory animals
MUTAGENCITY: No clear evidence of in vivo mutagenicity activity in mammalian assay systems.
CARCINOGENICITY: Two laboratory studies have shown a low incidence of fore stomach tumors in the mouse and mononuclear cell leukemia in the F344 rat. EPA under its 1999 proposed evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential". IARC lists DDVP (Dichlorvos) as being possibly carcinogenic to humans (group 2B).
CARE SHOULD BE EXERCISED IN HANDLING DDVP AND ITS FORMULATIONS.
REPRODUCTIVE TOXICITY: Reproductive effects have only been seen at a dose level which produced a generalized toxicity in the rat.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: No data are available.

VAPORTAPE II END PRODUCT:

INGESTION	ORAL LD50	Acute toxic estimate Category 4
INHALATION	LC50 STUDY	NOT AVAILABLE ON STRIP
DERMAL :	SKIN LD 50 (Rats)	>5050 mg/kg
IRRITATION :	SKIN STUDY	NOT AVAILABLE ON STRIP
	EYES STUDY	NOT AVAILABLE ON STRIP
SENSITIZATION :	SKIN SENSITIZATION STUDY	NOT AVAILABLE ON STRIP

SECTION XII: ECOLOGICAL INFORMATION

No adverse effects have been reported.

The ecotoxicological effects of this product have not been evaluated.

Chemical Fate Information No data available.

SECTION XIII: DISPOSAL CONSIDERATIONS

STORAGE: Store in a cool dry place.

PESTICIDE DISPOSAL: Do not reuse empty pouch or strip. Wrap strip in paper and discard in trash

CONTAINER DISPOSAL: Do not reuse empty pouch. Discard in trash.

SECTION XIV: TRANSPORTATION INFORMATION

Ground Transport (DOT)

Class 60

SECTION XV: REGULATORY INFORMATION

US FEDERAL REGULATIONS: This product is registered under EPA/FIFRA Regulations 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. Following is the hazard information as required on the pesticide label:

Signal word: CAUTION

It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions.

CANADIAN REGULATIONS: This product is registered under the Pest Control Product Act of Canada. It is a violation of Canadian Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. POISON

SARA TITLE III DATA

DDVP

Section 311 & 312 Hazard Categories
Immediate Health Hazard

Yes

Delayed Health Hazard	Yes
Fire Hazard:	No
Reactive Hazard	No
Sudden Pressure Release Hazard	No

Section 302 Extremely Hazardous substances: DDVP (Dichlorvos, 62-73-7)

Section 313 Toxic Chemicals: DDVP (Dichlorvos, 62-73-7)

OSHA Classification: DDVP in the Vaportape formulation is hazardous

TSCA Status: Not listed on TSCA

CERCLA: DDVP subject to reporting requirements

RCRA: DDVP considered hazardous

Clean Air Act Ozone Depleting Chemical Substances: None

Clean Air Act Hazardous Air Pollutants: DDVP

Volatile Organic Compounds: None

USDA Status: EPA Reg. No. 8730-50

This product is not intended for use on food products

SECTION XVI OTHER INFORMATION

MSDS NUMBER E100311

DATE ISSUED: April4, 2014

BY: M. Banfield

DATE REVISED: Oct. 10, 2016

TITLE: Product Development Manager

WARRANTY AND LIMITATION OF DAMAGES

SpringStar warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the Directions for Use under normal conditions of use to the extent allowed by state law. SpringStar neither makes, nor authorizes any agent or representative to make any other warranty of fitness or of merchantability, guarantee or representation, expressed or implied concerning this material except as stated above. This warranty does not extend to the use of this product contrary to the label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to SpringStar. If this product is defective, Buyer's exclusive remedy shall be the replacement of the product, or if replacement is impracticable as determined by SpringStar, refund of the purchase price. To the extent allowable by law, SpringStar's maximum liability for breach of this warranty shall not exceed the purchase price of this product. In no case will SpringStar be liable for incidental, consequential or special damages resulting from handling, storage, use, misuse or abuse of this product.