

DeLaval Applicator Fly Spray

SAFETY DATA SHEET

Preparation Date: No data available

Revision Date: 16-Jul-2015

Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name DeLaval Applicator Fly Spray

Other means of identification

Item#: 1335

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use insecticide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier DeLaval Manufacturing
11100 N. Congress Ave.
Kansas City, MO 64153

Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Dermal	Category 3
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Label Elements

Emergency Overview

DANGER

Hazard Statements

Toxic in contact with skin

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure



Appearance Colorless to lightly colored

Physical state Liquid

Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash hands and face thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

• Not applicable

Unknown Acute Toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Permethrin	52645-53-1	0 - 10%	*

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

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting. Rinse mouth. Call a physician or Poison Control Centre immediately.

Most important symptoms and effects, both acute and delayed

May cause drowsiness and dizziness. May cause eye/skin irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, Foam, Carbon dioxide (CO₂), Water

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

Environmental Precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Store locked up.

Incompatible Materials strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Keep out of the reach of children

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face Protection If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	No information available
Appearance	Colorless to lightly colored	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	> 93 °C / > 200 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	0.86	
Water Solubility	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	
Decomposition temperature	No information available	
Viscosity of Product	No information available	

Other information

Density 7.13 lb/gal

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical Stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None known.

Conditions to Avoid
Extremes of temperature and direct sunlight.

Incompatible Materials
strong oxidizing agents

Hazardous decomposition products
Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.			
Mutagenic effects	No information available.			
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Permethrin 52645-53-1	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
Group 3 - Not classifiable*

Reproductive Effects No information available.
STOT - single exposure May cause respiratory irritation.
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard No information available.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Permethrin 52645-53-1	= 220 mg/kg (Rat) = 383 mg/kg (Rat)	> 5000 mg/kg (Rat) = 1750 mg/kg (Rat) > 2 g/kg (Rabbit)	> 0.69 mg/L (Rat) 4 h

Numerical measures of toxicity - Product Information

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Microtox	Waterflea
Permethrin 52645-53-1	-	0.008 - 0.03: 96 h Pimephales promelas mg/L LC50 flow-through 0.001 - 0.009: 96 h Pimephales promelas mg/L LC50 static 0.015: 96 h Cyprinus carpio mg/L LC50 flow-through 0.0052 - 0.0077: 96 h Cyprinus carpio mg/L LC50 0.00079: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.0108: 96 h Lepomis macrochirus mg/L LC50 0.00188 - 0.00336: 96 h Lepomis macrochirus mg/L LC50 static 0.00049 - 0.00097: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.0017 - 0.0048: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Partition coefficient
Permethrin 52645-53-1	6.5

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method

Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	TSCA
DSL/NDSL	DSL/NDSL
EINECS/ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label information

EPA Pesticide registration number 47000-150-11388

16. OTHER INFORMATION

NFPA Health 1 Flammability 1 Instability 0 Physical Hazard -

Revision Date: 16-Jul-2015

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS