

MATERIAL SAFETY DATA SHEET

PRODUCT: Kemsan 3610D ULV Insecticide

SECTION 1 - PRODUCT INFORMATION

P.C.P. Act Registration No.: 15472

Code: 5180130

Chemical Name: D-Trans Allethrin: dl-2-Allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one ester of dl-cistrans chrysanthemum monocarboxylic acid.

Piperonyl Butoxide: 3,4-Methylenedioxy-6-propylbenzyl n-butyl diethyleneglycol ether

Synonyms: None

Chemical Family: Pyrethroid

Product Use: Insecticide

TDG Classification: Not Regulated

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
D-Trans Allethrin	3.0	584-79-2	Oral, rat 680	-
Piperonyl Butoxide	6.0	51-03-6	Oral, rat 2010	-
MGK264	10.0	113-48-4	Oral, rat 4980 Dermal, rabbit >2000	LC50 4.08 mg/l
Petroleum Solvent	75 - 85	64742-47-8	Oral, rat >5000 Dermal, rabbit >3000	300 ppm
Calculated LD 50 for mixture			10,650	

SECTION 3 - PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 0.839

Boiling Point: 184 to 212 °C

Vapour Pressure: 0.147 KPa @ 20 °C

% Volatiles: Approx 80 %

Solubility in Water: Insoluble

Appearance\Odour: Clear amber liquid.

pH: No Data

Freezing/Melting Point: Approx. -40 °C

Vapour Density: 5.4 (Air=1)

Evaporation Rate: 1.1 Approx.

SECTION 4 - FIRE AND EXPLOSION

Flash Point: 64 °C T.C.C.

Lower Explosion Limit %: 1.4 %

Fire Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical or Water Fog

Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Minimize the amount of water used and dike the area for runoff.

Other Fire or Explosion Hazards: Container may explode under intense heat. Vapour is heavier than air, may flash back from an ignition source.

Autoignition Temperature: 227 °C

Upper Explosion Limit %: 9.3 %

Kemsan 3610D ULV Insecticide

SECTION 5 - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Prolonged exposure to elevated temperatures.

Incompatibility (Materials to Avoid): Acidic or alkaline conditions may cause product to decompose.

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide

SECTION 6 - HEALTH HAZARD DATA

Acute Effects of Overexposure: May cause temporary irritation to the eyes, nose, throat and respiratory tract. Can cause skin irritation especially to sensitive areas - face, mouth and eyes. Ingestion can cause stomach irritation resulting in cramps and vomiting.

Effects of Chronic Exposure: Prolonged exposure may cause defatting and drying of the skin, possibly progressing to dermatitis.

Other Health Effects: None Known

SECTION 7 - FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and restore breathing if required. OBTAIN MEDICAL ADVICE.

Skin Contact: Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek Medical Attention.

Ingestion: Give 1 to 2 glasses (200 to 500 ml) of water to dilute material. Do not induce vomiting. OBTAIN MEDICAL ADVICE. If vomiting occurs, have victim lean forward with head down to avoid breathing of vomitus.

Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

SECTION 8 - PREVENTIVE MEASURES

Respiratory Protection: NIOSH/MSHA approved respirator

Eye Protection: Safety Goggles

Skin Protection: Chemical resistant gloves

Other Personal Protective Equipment: Coveralls

Engineering Controls: Local exhaust or ventilation

Handling Procedures and Equipment: Avoid breathing vapours, contact with eyes, skin and clothing. Wash thoroughly after use.

Storage Requirements: Store in cool, dry, well ventilated area. Keep out of reach of children and pets.

Storage Temperature: Min: 0 °C Max: 50 °C

SECTION 9 - ENVIRONMENTAL PROTECTION DATA

Spill and Leak Procedures: Eliminate all ignition sources. Stop leak, contain spill by diking and absorb with suitable absorbent and transfer into waste containers for disposal. Clean area with detergent and water, absorb wash and place in waste container. Remove any contaminated soil for proper disposal.

Waste Disposal: Dispose of empty container with household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Environmental Effects: This product is toxic to fish and wildlife. Do not contaminate local water supplies or environments.

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Prepared by: Technical Department

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