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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

PRODUCT NAME: Mosquito ULV

OTHER NAME: None allocated

MANUFACTURERS CODE: (21592) 5L (21672) 20L

PROPER SHIPPING NAME (ADG Code): None allocated

UN NUMBER: None allocated

DANGEROUS GOODS CLASS: None allocated

SUBSIDIARY-RISK: None allocated

PACKING GROUP: None allocated

HAZCHEM CODE: None allocated

POISONS SCHEDULE: S5 - Caution

USE: A liquid insecticide concentrate for indoor and outdoor use by commercial pest control operators.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: light yellow liquid

MELTING POINT: Not applicable

BOILING POINT: approx 195°C (solvent)

VAPOUR PRESSURE: 0.06kPa @ 20°C

DENSITY: 0.92

FLASH POINT: >72°C

FLAMMABILITY LIMITS: 0.7 – 6.0%

SOLUBILITY IN WATER: Not soluble

CORROSIVENESS: Not corrosive

OTHER PROPERTIES: Not applicable

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Bioresmethrin	28434-01-7	58g/L
Piperonyl Butoxide	51-03-6	100g/L
Bioallethrin	584-79-2	30g/L
Hydrocarbon Solvent	64742-96-7	To 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia): Xn - Harmful

RISK PHRASES: R65 – May cause lung damage if swallowed

SAFETY PHRASES: S2 – Keep out of reach of children.
S23 – Do not breathe spray.
S24 – Avoid contact with skin

GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause poisoning. Poisoning symptoms include headaches, dizziness, nausea, diarrhoea and cramps.

ACUTE

SWALLOWED:

The acute oral toxicity is Low. Oral LD50 (rat) 7000mg/kg (Bioresmethrin).
Oral LD50 (rat) 5630mg/kg (Piperonyl Butoxide).
Oral LD50 (rat) 1100mg/kg (Bioallethrin)

For product Oral LD50 (rat) 14418mg/kg (Calculated)

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD50 (rat) 10000mg/kg (Bioresmethrin).
Dermal LD50 (rabbit) >2000mg/kg (Piperonyl Butoxide).
Dermal LD50 (rats) >2500mg/kg (Bioallethrin)

For product LD50 > 4119mg/kg. (Calculated)

INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to spray may be harmful. Prolonged exposure to the spray may cause eye and respiratory irritation, dizziness and headaches.

Inhalation LD50 (rat) = 5.3 mg/m³ (4 hours) (Bioresmethrin).
Inhalation LD50 (rat) = 5.9 mg/m³ (4 hours) (Piperonyl Butoxide).
Inhalation LD50 (rat) = 2.5 mg/m³ (4 hours) (Bioallethrin).

CHRONIC:

Bioresmethrin, Bioallethrin and piperonyl butoxide do not accumulate in the body.

FIRST AID

GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.

SWALLOWED:

If poisoning or any adverse health effects are noticed, contact a doctor or Poisons Information Centre.

EYE:

Hold eyes open and flush with water for at least 15 minutes. If irritation persists, seek medical assistance.

SKIN:

Remove any contaminated clothing. Wash skin thoroughly with soap and water. Do not scrub skin. Seek medical assistance if irritations or adverse health effects develop.

INHALED:

Remove to fresh air and keep warm. If deliberately inhaled, seek urgent medical attention.

FIRST AID FACILITIES:

Soap, water.

ADVICE TO DOCTOR:

Mosquito ULV contains petroleum-like solvents and the benefits of inducing vomiting must be weighed against the possibility of chemical pneumonitis.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

No exposure standard available

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

ENGINEERING CONTROLS:

Use only in a well ventilated area.

PERSONAL PROTECTION:

When handling the product, preparing and using spray wear:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length PVC neoprene or nitrile gloves.
- goggles.
- half faced respirator with combined dust/toxic vapour cartridge. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

FLAMMABILITY:

Concentrate is Combustible. Product will burn if involved in a fire.

SAFE HANDLING INFORMATION

STORAGE

Store product in original container only in a locked, well-ventilated area, out of direct sunlight and away from any ignition sources.

TRANSPORT

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SPILLAGE

Wear appropriate clothing while cleaning up spill (see Personal Protection). Extinguish any ignition sources. Prevent entry into drainage systems, waterways, rivers, etc. Apply absorbent material such as sand, earth or attapulgit to contain the spill. Sweep up the material when absorption is complete. If product spilt indoors, wash contaminated surfaces with soap solution.

DISPOSAL

Disposal of contaminated material must be done in accordance with State and/or Local regulations. Triple rinse containers with water and add rinsings to tank mix. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the empty containers at a local authority landfill. Do not burn empty containers or product. Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.

FIRE/EXPLOSION HAZARD

Product is not a fire or explosion hazard, but will burn if involved in a fire

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon

FIRE FIGHTING EQUIPMENT:

Foam or dry powder. Wear full protective clothing.

OTHER INFORMATION

ECOTOXICITY DATA:

This product is toxic to fish and other aquatic organisms. Slightly toxic to bees

ENVIRONMENTAL FATE:

Bioresmethrin decomposes in UV light. This product will biodegrade in the environment.

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: Technical Department

DATE: 10/04/08

NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.