



Agrium Advanced Technologies
10 Craig Street, Brantford, Ontario, N3R 7J1
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MATERIAL SAFETY DATA SHEET

PRODUCT: PRO® BUG-X® READY-TO-USE INSECTICIDE

SECTION 1 - PRODUCT INFORMATION

P.C.P. Act Registration No.: 28290

Code: 5182050, 5182060

Chemical Name: 3-Phenoxybenzyl(+)Cis,Trans-3-(2,2-Dichlorovinyl)-2,2-Dimethylcyclopropane Carboxylate.

Synonyms: Permethrin

Chemical Family: Pyrethroid insecticide

Product Use: Domestic Insecticide

TDG Classification: Not regulated

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Tetramethrin	0.20	007696-12-0	Oral, Rat >5000 Dermal, Rat >5000	
Permethrin	0.20	052645-53-1	Oral, Rat - 806 - 814	-
Aromatic Petroleum Distillates	<1	064742-95-6		

SECTION 3 - PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 1.002

Boiling Point: No Data

Vapour Pressure: No Data

% Volatiles: No Data

Solubility in Water: Partially miscible in water

Appearance\Odour: White Milky liquid with slight odor of petroleum distillates.

pH: 5-6

Freezing/Melting Point: Approx. 0 °C

Vapour Density: Heavier than air

Evaporation Rate: No Data

SECTION 4 - FIRE AND EXPLOSION

Flash Point: >93.3 °C Closed Cup

Lower Explosion Limit %: Not Applicable

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: None known

Autoignition Temperature: Not Applicable

Upper Explosion Limit %: Not Applicable

SECTION 5 - REACTIVITY DATA

Stability: Stable **Hazardous Polymerization:** Will Not Occur

Conditions to Avoid: None known.

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

Hazardous Decomposition Products: This product is classified as non-combustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may combust to give off such gases as carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride, and chlorine gas.



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SECTION 6 - HEALTH HAZARD DATA

Acute Effects of Overexposure: May cause temporary irritation to the eyes, nose, throat and respiratory tract.
Effects of Chronic Exposure: None known.

SECTION 7 - FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and restore breathing if required. Obtain medical advice if symptoms persist. **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 unless directed to by a poison control centre or medical physician. OBTAIN MEDICAL ADVICE. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing of vomitus. Never give anything by mouth to an unconscious person
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: None Required
Eye Protection: Safety Goggles optional
Skin Protection: Chemical resistant gloves
Other Personal Protective Equipment: None Required
Engineering Controls: Local exhaust and 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: 5 °C Max: 40 °C

SECTION 9 - ENVIRONMENTAL PROTECTION DATA

Spill and Leak Procedures: 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.

The information contained herein is considered accurate and offered only as a guide to the handling of this specific material. This information, does not relate to its use with any other material or product or in any process. No warranty, expressed or implied is made regarding the accuracy of the data or the performance of the material by us. This Material Safety Data Sheet is valid for three years from Issue Date.

Prepared by: Technical Department

Issue Date: February 1, 2016