

Safety Data Sheet

110 ULV Insecticide

SECTION 1. IDENTIFICATION

Product Identifier	Pro® Professional 110 Ultra-Low Volume Insecticide	
Other Means of Identification	Code: 5180080	P.C.P. Act Registration No.: 15330
Recommended Use	Insecticide	
Restrictions on Use	None Known	
Initial Supplier Identifier	Premier Tech Brighton Ltd., 1, avenue Premier, Rivière-du-Loup, QC G5R 6C1	
Emergency Telephone Number	In the event of an emergency involving dangerous goods, call CANUTEC at 1-888-CAN-UTEC (226-8832), or on a cellular phone *666	

SECTION 2. HAZARD IDENTIFICATION

Classification	Flammable Liquids – Category 4; H227 Aspiration Hazard – Category 1; H304 Acute Inhalation Toxicity – Category 3; H331 Acute Oral Toxicity – Category 5; H303 Acute Dermal Toxicity – Category 5; H313 Skin irritation – Category 2; H315 Eye irritation – Category 2B; H320
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Label Elements



Signal Word:

DANGER

Hazard Statement(s):

- Combustible liquid H227
- May be fatal if swallowed and enters airways H304
- Toxic if inhaled H331
- May be harmful in contact with skin H313
- Causes skin irritation H315
- Causes eye irritation H320

Precautionary Statement(s):

- Prevention:
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Wear NIOSH/MSHA approved respirator, safety goggles, chemical resistant gloves and coveralls.
- Avoid breathing vapours and mists.
- Use only outdoors or in a well-ventilated area.
- Wash skin and eyes thoroughly after handling.

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Do not eat, drink or smoke when using this product.

Response:

In case of fire: Use Foam, Carbon Dioxide, Dry Chemical or Water to extinguish.

IF SWALLOWED: Immediately call doctor. Do NOT induce vomiting. Give 1 to 2 glasses of water (200 to 500mL) to dilute material. Rinse mouth. 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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor for medical advice. Restore breathing if required.

IF ON SKIN: Wash skin thoroughly with soap and water. Call a doctor if you feel unwell. If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, get medical attention. Hold eyelids open during flushing. Flush eyes with running water for 20 minutes.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

Disposal:

Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Dispose of empty container with household garbage.

Other Hazards

This product is toxic to fish and wildlife. Do Not contaminate local water supplies or environments.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms
Petroleum Distillates	64742-47-8	75% – 85%	Petroleum Distillates
3,4-methylenedioxy-6-propylbenzyl n-butyl diethyleneglycol ether	51-03-6	10.0%	Piperonyl Butoxide (PBO)
Pyrethrins	8003-34-7	1.0%	Pyrethrins

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SECTION 4. FIRST-AID MEASURES

Inhalation	Move victim to fresh air and restore breathing if required. Obtain Medical Advice.
Skin Contact	Wash skin thoroughly with soap and water. If irritation persist seek Medical Attention.
Eye Contact	Flush eyes with running water fro 20 minutes. Hold eyelids open during flushing. If irritation persists, seek Medical Attention.
Ingestion	Give 1 to 2 glasses of water (200 to 500 mL) to dilute material. Do not induce vomiting. Obtain Medial 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.
Most Important Symptoms and Effects, Acute and Delayed	<p>Acute Effects of Overexposure: May cause temporary irritation to the eyes, nose throat and respiratory tract. Prolonged exposure to vapours can cause headache, dizziness, nausea and nervous system depression.</p> <p>Effects of Chronic Exposure: Prolonged exposure may cause defatting and drying of the skin, possibly progressing to dermatitis.</p>
Immediate Medical Attention and Special Treatment	None Known

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable	Foam, Carbon Dioxide, Dry Chemical or Water. Wear self-contained Breathing Apparatus and impervious clothing.
Extinguishing Media Unsuitable	None Known.
Specific Hazards Arising from the Product	Container may explode under intense heat. Vapour is heavier than air, may travel along the ground to ignition sources and then flash back. Materials to Avoid: Acidic or alkaline conditions may cause product to decompose. Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide.
Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters must wear Self-contained Breathing Apparatus and impervious clothing. Minimize the amount of water used and dike the area for runoff. Eliminate all ignition sources.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	<p>Eliminate all ignition sources.</p> <p>Do not touch damaged containers or spilled product unless wearing appropriate protective equipment recommended; NIOSH/MSHA approved respirator, safety goggles, chemical resistant gloves and coveralls.</p> <p>Evacuate the area immediately, isolate the hazard area. Keep out unnecessary and unprotected personnel.</p> <p>Environmental Precautions: Do not allow in local waterways or environments.</p>
Methods for Containment and Cleaning Up	<p>Stop leak and contain spill by diking and absorb with suitable absorbent and transfer into waste containers for disposal.</p> <p>Clean area with detergent and water, absorb wash and place in waste container. Remove any contaminated soil for proper disposal.</p>

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	<p>Ensure source of ventilation.</p> <p>Avoid breathing vapours and mists, contact with eyes, skin and clothing.</p> <p>Wash thoroughly after use.</p> <p>Wear personal protective equipment, NIOSH/MSHA approved respirator, safety goggles, chemical resistant gloves and coveralls to avoid direct contact with this product.</p>
Conditions for Safe Storage	<p>Store in cool, dry, well ventilated area.</p> <p>Avoid prolonged exposure to elevated temperatures.</p> <p>Storage Temp: Min. temp 0°C Max. temp 50°C</p> <p>Keep out of reach of children and pets.</p> <p>Keep container tightly closed and store locked up.</p> <p>Materials to Avoid: Acidic or alkaline conditions may cause product to decompose.</p>

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Control	Source of ventilation.
Individual Protection Measures	
Eye/Face Protection	Safety Goggles
Skin Protection	Chemical Resistant Gloves and Coveralls
Respiratory Protection	NIOSH/MSHA approved respirator

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Chemical Name	ACGIH® TLV®	
	TWA – T.L.V.	LD50 (mg/Kg)
Petroleum Distillates	300 ppm	Oral, rat >5000 Dermal, rabbit >3000
Piperonyl Butoxide	>5.9 mg/L	Oral, rat 2010
Pyrethrins	5 mg/m ³	Oral, rat 200 Dermal, rat >2000

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, amber liquid
Odour	Hydrocarbon
Odour Threshold	No data available
pH	No data available
Melting Point and Freezing Point	No data available
Initial Boiling Point and Boiling Range	188°C to 209°C
Flash Point	64°C T.C.C.
Evaporation Rate	1.1 approx.
Flammability (solid, gas)	No data available
Upper and Lower Flammability or Explosive Limit	9%(upper explosion limit); 1% (Lower explosion limit)
Vapour Pressure	0.07 kPa @ 20°C
Vapour Density (air = 1)	5.4
Relative Density (water = 1)	No data available
Solubility in Water	Insoluble

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Solubility in Other Liquids No data available

Partition Coefficient, n-Octanol / Water (Log Kow) No data available

Auto-ignition Temperature 227°C

Decomposition Temperature No data available

Viscosity No data available

Specific Gravity 0.813

SECTION 10. STABILITY AND REACTIVITY

Reactivity No Hazardous Polymerization

Chemical Stability Stable

Possibility of Hazardous Reactions None expected under normal conditions of storage and use.

Conditions to Avoid Prolonged exposure to elevated temperatures

Incompatible Materials Acidic or alkaline conditions may cause product to decompose

Hazardous Decomposition Products Carbon Monoxide and Carbon Dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Acute Toxicity

Chemical Name	LD50 (mg/Kg)
Petroleum Distillates	Oral, rat >5000 Dermal, rabbit >3000
Piperonyl Butoxide	Oral, rat 2010
Pyrethrins	Oral, rat 200 Dermal, rat >2000
Calculated LD50 for Mixture	18,300

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Skin Corrosion / Irritation

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

Serious Eye Damage / Irritation

May cause temporary irritation to the eyes

Respiratory and/or Skin Sensitization

May cause temporary irritation to the nose, throat and respiratory tract.

STOT (Specific Target Organ Toxicity) – Single Exposure

Acute effects of Overexposure:

May cause temporary irritation to the eyes, nose, throat and respiratory tract. Prolonged exposure to vapours can cause headache, dizziness, nausea and nervous system depression.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Effects of Chronic Exposure:

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

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

Mutagenicity: No data available.

Sexual Function and Fertility: No data available.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.
REACH registrations identify this substance is toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of empty container with household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

In the event of an emergency involving dangerous goods, call CANUTEC at 1-888-CAN-UTEC (226-8832), or on a cellular phone *666

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SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Classified per Canada's Hazardous Products Regulations (WHMIS 2015)
 This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency (PMRA) and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. Refer to the PMRA registered label for all hazard information.
 P.C.P. Act Registration No.: 15330

SECTION 16. OTHER INFORMATION

Legend to abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists.
CANUTEC	CANUTEC stands for Canadian Transport Emergency Centre, which is operated by the Transportation of Dangerous Goods (TDG) Directorate of Transport Canada. CANUTEC provides information and communications assistance in case of transportation emergencies involving dangerous goods. It is accessible in Canada by telephone, 24 hours a day, year-round at (613) 996-6666 (collect) or *666 on a cell phone.
CAS	CAS Registry Number – the Chemical Abstracts Service Registry Number. This identification number is assigned to a chemical by the Chemical Abstracts Service, a division of the American Chemical Society.
HPA / HPR	Hazardous Products Act / Hazardous Products Regulations – The Hazardous Products Regulations (HPR) are Canadian federal regulations enabled by the Hazardous Products Act (HPA). They are part of the national Workplace Hazardous Materials Information System (WHMIS 2015), and replace the Controlled Products Regulations (CPR). The HPR applies to all suppliers (importers or sellers) in Canada of hazardous products intended for use, handling or storage in Canadian work places. The regulations specify the criteria for classification of hazardous products. They also specify what information must be included on labels and Safety Data Sheets (SDSs).
LC50	(Lethal Concentration ₅₀) – the airborne concentration of a substance or mixture that causes the death of 50 per cent of the group of animals in tests that measure the ability of a substance or mixture to cause poisoning when it is inhaled. These tests are usually conducted over a 4-hour period. The LC ₅₀ is usually expressed as parts of test substance or mixture per million parts of air (ppm) for

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	gases, or as milligrams of test substance or mixture per litre of air (mg/l) for dusts, mists or vapours.
LD50	(Lethal Dose50) – the single dose of a substance or mixture that causes the death of 50 per cent of the group of animals in tests that measure the ability of a substance or mixture to cause poisoning when it is swallowed (oral exposure) or absorbed through the skin (dermal exposure). The LD50 can vary depending on factors such as the species of animal tested and by the route of entry. The LD50 is usually expressed as milligrams of substance or mixture per kilogram of test animal body weight (mg/kg).
Local/Source Ventilation	The movement of air by mechanical means. The removal of contaminated air directly at its source. This type of ventilation can help reduce worker exposure to airborne substances more effectively than general ventilation, because it does not allow the substance to enter the work environment. It is usually recommended for hazardous airborne substances.
MSHA	Mine Safety Health Administration
NIOSH	National Institute for Occupational Safety and Health. NIOSH is a branch of the United States government. It is the mission of NIOSH to develop new knowledge in the field of occupational safety and health, and to transfer that knowledge into practice.
PCP	Pesticide Control Products Act
PPE	Personal protective equipment
REACH	Stands for Registration, Evaluation, Authorization & Restriction of Chemicals. It is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals.
STEL	Short-term exposure limit (STEL) is the average concentration to which workers can be exposed for a short period (usually 15 minutes) without harmful effects. ACGIH specifically defines the harmful effects as irritation, long-term or irreversible tissue damage, reduced alertness or other toxic effects. The number of times the concentration reaches the STEL and the amount of time between these occurrences can also be restricted.
TDG	Transportation of Dangerous Goods – federal legislation that controls the conditions under which dangerous goods may be transported on public roads, in the air, by rail or by ship. Its purpose is to protect the health and safety of persons in the vicinity of transport accidents involving those goods.
TLV	Threshold limit values - airborne concentrations of substances to which it is believed that nearly all workers may be exposed day after day without experiencing adverse effects. ACGIH® develops these values.
TWA	Time-weighted average exposure limit is the time-weighted average concentration of a chemical in air for up to 10 hours a day, 40 hours a week, to which nearly all workers may be exposed day after day

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	without harmful effects. "Time-weighted average" means that the average concentration has been calculated using the duration of exposure to different concentrations of the chemical during a specific time (usually 8 hours). In this way, higher and lower exposures are averaged over the day or week
WHMIS	Workplace Hazardous Materials Information System. WHMIS is Canada's national hazard communication system for hazardous products in the work place. It applies to suppliers, importers, and distributors of hazardous products that are sold in or imported into Canada and intended for use, handling or storage in Canadian work places, as well as to the employers and workers who use those products.

References

UNITED NATIONS (UN). 2015. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Sixth revised edition, New York and Geneva, 527 pages http://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs_rev06/English/ST-SG-AC10-30-Rev6e.pdf (November 12, 2016)

CANADIAN CENTRE FOR OCCUPATIONAL HEALTH AND SAFETY (CCOHS). 2016. *WHMIS/GHS/(M)SDS*, Website, Government of Canada, www.ccohs.ca/topics/legislation/WHMIS/index.html (November 12, 2016)

Information on Chemicals from European Chemicals Agency (ECHA) <https://echa.europa.eu/information-on-chemicals>

TRANSPORT CANADA. 2016. *CANUTEC*, Website, Canadian Transport Emergency Centre, Government of Canada, <https://www.tc.gc.ca/eng/canutec/menu.htm> (November 12, 2016)

Date of Latest Revision

January 31, 2017

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