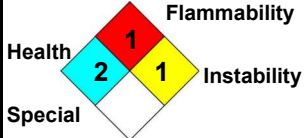





# Material Safety Data Sheet

NFPA	HMIS	WHMIS	TDG	DOT								
	<table border="1"> <tr><td>Health</td><td>2</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Physical hazards</td><td>1</td></tr> <tr><td>Suggested PPE</td><td>B</td></tr> </table>	Health	2	Flammability	1	Physical hazards	1	Suggested PPE	B			
Health	2											
Flammability	1											
Physical hazards	1											
Suggested PPE	B											

## 1 . Product and Company Identification

Product name **5167500 PRO X 120 ULV**

Synonym

MSDS prepared by the **12/21/2010.**  
Environment, Health & Safety  
Department on:

Material uses Insecticide

Version 4

MSDS Number PCP Registration #: 15565

### In Case of Emergency

**Transportation: 1-800-792-8311**  
**Medical: 1-888-615-0015**

**Manufacturer** Agrium Advanced Technologies, Inc.  
2915 Rocky Mountain Avenue, Suite 400  
Loveland, CO. 80538

For more information on Agrium AT or our products,  
please go to:  
<http://www.agriumat.com>  
or contact us at Toll-Free:800-461-6471

## 2 . Hazards Identification

**Physical state** Liquid.

**OSHA/HCS status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview** DANGER!

MAY BE FATAL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Very toxic if swallowed. Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling.

### Potential acute health effects

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion** Very toxic if swallowed.

**Skin** May cause skin sensitization.

**Eyes** May cause severe eye irritation.

### Potential chronic health effects

**Chronic effects** Contains material that may cause target organ damage, based on animal data.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

## 2 . Hazards Identification

<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Target organs</b>	Contains material which may cause damage to the following organs: blood, kidneys, liver, gastrointestinal tract, central nervous system (CNS).
<b><u>Over-exposure signs/symptoms</u></b>	
<b>Inhalation</b>	No specific data.
<b>Ingestion</b>	No specific data.
<b>Skin</b>	No specific data.
<b>Eyes</b>	No specific data.
<b>Medical conditions aggravated by over-exposure</b>	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
See toxicological information (Section 11)	

## 3 . Composition / Information on Ingredients

### United States

<u>Name</u>	<u>CAS number</u>	<u>%</u>
propoxur (ISO)	114-26-1	12.67

### Canada

<u>Name</u>	<u>CAS number</u>	<u>%</u>
solvent naphtha (petroleum), heavy arom.	64742-94-5	30 - 60
propoxur (ISO)	114-26-1	12.67

### Mexico

<u>Name</u>	<u>CAS number</u>	<u>UN number</u>	<u>%</u>	<u>IDLH</u>	<u>Classification</u>			<u>Special</u>
					<u>H</u>	<u>F</u>	<u>R</u>	
propoxur (ISO)	114-26-1	UN2811	12.67	-	3	1	0	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 . First Aid Measures

<b>Eye contact</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if symptoms or conditions persist.
<b>Skin contact</b>	In case of contact with skin, immediately wash affected area with soap and water followed by alcohol. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation</b>	If inhalation occurs, remove individual(s) to fresh air. Loosen restrictive clothing items if necessary. If individual has irregular or difficulty breathing or is under respiratory arrest seek medical attention immediately. If other conditions or symptoms develop contact a physician.
<b>Ingestion</b>	If ingestion occurs, rinse mouth with copious amounts of water. Do Not induce vomiting unless directed to do so by trained medical personnel. Do Not give anything by mouth to unconscious individuals. Seek immediate medical attention.

## 4 . First Aid Measures

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Propoxur is a cholinesterase inhibitor which may produce some of the following symptoms: headache, nausea, vomiting, diarrhea, tightness in chest, sweating, salivation and convulsions.

## 5 . Fire-fighting Measures

**Flammability of the product** In a fire or if heated, a pressure increase will occur and the container may burst.

### Extinguishing media

**Suitable** Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** None known.

**Special exposure hazards** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental Release Measures

**Personal precautions** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods for cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 6 . Accidental Release Measures

**Large spill** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7 . Handling and Storage

**Handling** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children.

## 8 . Exposure Controls / Personal Protection

### United States

Ingredient	Exposure limits
propoxur (ISO)	ACGIH TLV (United States, 1/2008). TWA: 0.5 mg/m <sup>3</sup> 8 hour(s). NIOSH REL (United States, 6/2008). TWA: 0.5 mg/m <sup>3</sup> 10 hour(s).

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
propoxur (ISO)	US ACGIH 1/2008	-	-	0.5	-	-	-	-	-	-	
	AB 6/2008	-	-	0.5	-	-	-	-	-	-	
	BC 6/2008	-	-	0.5	-	-	-	-	-	-	
	ON 6/2008	-	-	0.5	-	-	-	-	-	-	
	QC 6/2008	-	-	0.5	-	-	-	-	-	-	

### Mexico

Ingredient	Exposure limits
propoxur (ISO)	ACGIH TLV (United States, 1/2008). TWA: 0.5 mg/m <sup>3</sup> 8 hour(s).

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

## 8 . Exposure Controls / Personal Protection

<b>Engineering measures</b>	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b><u>Personal protection</u></b>	
<b>Respiratory</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hands</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eyes</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
<b>Skin</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b><u>Environmental exposure controls</u></b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and Chemical Properties

<b>Physical state</b>	Liquid.
<b>VOC</b>	0 % (w/w)

## 10 . Stability and Reactivity

<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Hazardous polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Store below 100F.
<b>Materials to avoid</b>	Keep away from strong acids.strong alkalis
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological Information

### United States

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propoxur (ISO)	LD50 Dermal	Rat	800 mg/kg	-
	LD50 Oral	Rat	41 mg/kg	-
	LC50 Inhalation	Rat	1440 mg/m3	1 hours
	Vapor			

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
propoxur (ISO)	A3	-	-	-	-	-

### Canada

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
solvent naphtha (petroleum), heavy arom.	LD50 Dermal	Rabbit	>2 mL/kg	-
	LC50 Inhalation	Rat	>590 mg/m3	4 hours
propoxur (ISO)	Vapor			
	LD50 Dermal	Rat	800 mg/kg	-
	LD50 Oral	Rat	41 mg/kg	-
	LC50 Inhalation	Rat	1440 mg/m3	1 hours
Vapor				

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
propoxur (ISO)	A3	-	-	-	-	-

### Mexico

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propoxur (ISO)	LD50 Dermal	Rat	800 mg/kg	-
	LD50 Oral	Rat	41 mg/kg	-
	LC50 Inhalation	Rat	1440 mg/m3	1 hours
	Vapor			

## 11 . Toxicological Information

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
propoxur (ISO)	A3	-	-	-	-	-

## 12 . Ecological Information

**Environmental effects** Water polluting material. May be harmful to the environment if released in large quantities.

### United States

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
propoxur (ISO)	-	Acute LC50 1.3 to 1.5 ppm Fresh water	Fish - Channel catfish - Ictalurus punctatus	96 hours
	-	Acute LC50 1260 to 1380 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

### Canada

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
propoxur (ISO)	-	Acute LC50 1.3 to 1.5 ppm Fresh water	Fish - Channel catfish - Ictalurus punctatus	96 hours
	-	Acute LC50 1260 to 1380 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

### Mexico

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
propoxur (ISO)	-	Acute LC50 1.3 to 1.5 ppm Fresh water	Fish - Channel catfish - Ictalurus punctatus	96 hours
	-	Acute LC50 1260 to 1380 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

## 13 . Disposal Considerations









### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport Information

Regulatory information	UN number	Shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	1992	Flammable Liquid, Toxic, N.O.S. (solvent naphtha (petroleum), heavy arom., propoxur (ISO), dodecylphenol). Marine pollutant (dodecylphenol, propoxur (ISO))	3 (6.1, 9)	III	   	Marine pollutant
<b>TDG Classification</b>	1992	Flammable Liquid, Toxic, N.O.S. (propoxur (ISO))	3 (6.1, 9)	III	  	-
<b>Mexico Classification</b>	UN2810	TOXIC LIQUID, ORGANIC, N.O.S. (propoxur (ISO))	6.1	III		-
PG* : Packing group						

## 15 . Regulatory Information

### United States

**HCS Classification** Highly toxic material  
Target organ effects

**U.S. Federal regulations** **TSCA 8(a) IUR Exempt/Partial exemption:** Partial exemption  
**United States inventory (TSCA 8b):** Not determined.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** propoxur (ISO)

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
propoxur (ISO): Immediate (acute) health hazard, Delayed (chronic) health hazard

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** Listed

**Clean Air Act Section 602 Class I Substances** Not listed

**Clean Air Act Section 602 Class II Substances** Not listed

**DEA List I Chemicals (Precursor Chemicals)** Not listed

**DEA List II Chemicals (Essential Chemicals)** Not listed

### SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	propoxur (ISO)	114-26-1	12.67
<b>Supplier notification</b>	propoxur (ISO)	114-26-1	12.67

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### **State regulations**

**Connecticut Carcinogen Reporting:** None of the components are listed.

**Connecticut Hazardous Material Survey:** None of the components are listed.

**Florida substances:** None of the components are listed.

**Illinois Chemical Safety Act:** None of the components are listed.

**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.

**Louisiana Reporting:** None of the components are listed.

**Louisiana Spill:** None of the components are listed.

**Massachusetts Spill:** None of the components are listed.

**Massachusetts Substances:** The following components are listed: DDVP

**Michigan Critical Material:** None of the components are listed.

**Minnesota Hazardous Substances:** None of the components are listed.

**New Jersey Hazardous Substances:** The following components are listed: ALKYL PHENOL, n.o.s.; PROPOXUR

**New Jersey Spill:** None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

**New York Acutely Hazardous Substances:** The following components are listed:  
Propoxur

**New York Toxic Chemical Release Reporting:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** The following components are listed:

## 15 . Regulatory Information

PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE  
**Rhode Island Hazardous Substances:** None of the components are listed.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
propoxur (ISO)	Yes.	No.	No.	

**United States inventory (TSCA 8b)** Not determined.

### Canada

**WHMIS (Canada)** Class D-1A: Material causing immediate and serious toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).

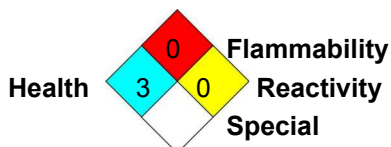
**Canadian lists**  
**CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** The following components are listed: Heavy aromatic solvent naphtha  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**Canada inventory** All components are listed or exempted.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**

### Mexico

#### Classification



### EU regulations

#### Hazard symbol or symbols



#### Risk phrases

R22- Harmful if swallowed.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R57- Toxic to bees.

#### Safety phrases

S2- Keep out of the reach of children.  
 S29- Do not empty into drains.  
 S46- If swallowed, seek medical advice immediately and show this container or label.  
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

### International regulations

## 15 . Regulatory Information

**International lists**  
**Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** Not determined.  
**Japan inventory:** Not determined.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** Not listed

**Chemical Weapons Convention List Schedule II Chemicals** Not listed

**Chemical Weapons Convention List Schedule III Chemicals** Not listed

## 16 . Other information

**Label requirements** MAY BE FATAL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

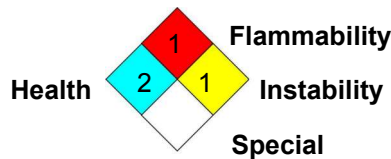
**Hazardous Material Information System (U.S.A.)**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Physical hazards</b>	1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

**National Fire Protection Association (U.S.A.)**



**Date of issue** 12/21/2010.

**Version** 4

Indicates information that has changed from previously issued version.

## 16 . Other information

### Notice to Reader:

The buyer assumes all risk in connection with the use of this material. The buyer assumes all responsibility for ensuring this material is used in a safe manner in compliance with applicable environmental, health and safety laws, policies and guidelines. Agrium Inc. assumes no responsibility or liability for the information supplied on this sheet, including any damages or injury caused thereby. Agrium Inc. does not warrant the fitness of this material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by or related to the use of the material. The information contained in this sheet is developed from what Agrium Inc. believes to be accurate and reliable sources, and is based on the opinions and facts available on the date of preparation.