

<Container label>

GROUP	1B	INSECTICIDE
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WARHAWK[®] 480 EC Insecticide

AGRICULTURAL

Emulsifiable Concentrate

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

DANGER



POISON

EYE AND SKIN IRRITANT

Warning, contains the allergen soy

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: Chlorpyrifos 480 g/L

REGISTRATION NUMBER 29984 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273**

NET CONTENTS: 1 - 500 L

LOVELAND PRODUCTS, INC.
3005 ROCKY MOUNTAIN
AVENUE
LOVELAND CO 80538
UNITED STATES

Distributed by:
Loveland Products Canada Inc
PO Box 5234 | 64137 Hwy 543 E
High River, AB T1V 1M4
1-800-328-4678

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL

Fatal if swallowed. May be harmful if inhaled or absorbed through skin. Causes eye irritation. May cause skin irritation. Do not get in eyes, on skin, or on clothing. Do not inhale vapours or spray mist. Handle chemical in a ventilated area. Wear protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. Remove contaminated clothing and launder separately before reuse. Do not wear contaminated shoes or boots. Keep away from food, feedstuffs, and water supplies.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S. visit CropLife Canada's website at www.croplife.ca.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Chlorpyrifos is an organophosphate that is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory and cardiac depression.

Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness and tremor in coordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful).

ANTIDOTE: Atropine, only by injection, is the preferable antidote. Administer atropine

sulphate in large doses; TWO or FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of chlorpyrifos may occur and relapse may occur after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

STORAGE

Keep away from food, drinks, and animal feedstuffs. Keep only in the original container, tightly closed. Do not store near heat or open flame.

Do not contaminate water, food or feed by storage. Store only in original container in secure, dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 38°C (100°F) for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. **The minimum recommended storage temperature for this material is 0°C (32°F). If allowed to freeze, warm to 21°C/ 70°F and shake well.**

DISPOSAL

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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Returnable-Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

<Detachable pamphlet>

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ENVIRONMENTAL AND USE PRECAUTIONS

This pesticide contains a petroleum distillate and is extremely toxic to fish and aquatic organisms, toxic to birds and wild mammals. This pesticide is TOXIC to bees exposed to direct treatment, drift, or residues on blooming plants. Do not use on flowering crops or weeds. DO NOT apply this product or allow it to drift to flowering crops or weeds if bees are visiting the treatment area. Applicators should inform local bee keepers prior to application if hives are in adjacent fields. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Avoid contamination of aquatic systems such as lakes, streams, ponds, estuaries, oceans, or other waters during application. Do not contaminate these systems through direct application, disposal of waste, or cleaning of equipment. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Spilled material should be soaked up with absorbent material and disposed of in an approved manner. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted or fine textured such as clay). Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact the provincial regulatory authority or the manufacturer.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that WARHAWK® 480 EC INSECTICIDE contains a Group 1B insecticide. Any insect/mite population may contain individuals naturally resistant to WARHAWK® 480 EC INSECTICIDE and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of WARHAWK® 480 EC INSECTICIDE or other Group 1B insecticides/acaricides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.

- Insecticide/acaricide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Loveland Products Inc. at 970-685-3300.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

GENERAL INFORMATION

WARHAWK® 480 EC INSECTICIDE is active against various insect pests by contact and ingestion. It is not systemic in the plant. Treatment of plants that are under extreme drought stress may result in some crop damage. The active ingredient in this product is decomposed by sunlight.

PRECAUTIONS FOR USE

Do not spray under windy conditions or from spraying equipment which could be expected to cause spray drift onto nearby crops or pastures. Do not mix with other pesticides when used on vegetables. Compatible with most commonly used pesticides except those that are alkaline. Do not add any additional adjuvants, surfactants, or spreader-stickers.

PRECAUTIONS FOR MIXERS/LOADERS

For liquid formulations packaged in containers more than 10 L

Mixers/loaders must use a closed mechanical transfer loading system.

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- an air purifying respirator with an -R or -P series filter; and
- socks and shoes.

For liquid formulations packaged in containers holding 10 L or less

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- a chemical-resistant apron;
- chemical-resistant footwear plus socks; and
- an air purifying respirator equipped with an -R or -P series filter.

PRECAUTIONS FOR APPLICATORS

Do not apply with high-pressure handwand equipment.

Applicators using airblast equipment with a closed cab must wear:

- a long-sleeved shirt and long pants
- socks and shoes
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab)

Applicators using airblast equipment with an open cab must wear:

- a long-sleeved shirt and long pants
- chemical-resistant coveralls and head protection
- socks and shoes
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter

Applicators using ground application equipment with a closed cab must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab); and
- socks and shoes.

Applicators using ground application equipment with an open cab must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves; and
- socks and shoes.

Applicators using aerial application equipment must use enclosed cockpits and must wear:

- a long-sleeved shirt and long pants; and
- socks and shoes.

Applicators using handheld equipment must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant coveralls and head protection (if spray is upwardly directed);
- chemical-resistant footwear and socks;
- chemical-resistant gloves; and
- an air purifying respirator with an -R or -P series filter.

DIRECTIONS FOR USE

MIXING: To prepare the spray, add approximately 1/4 of the required amount of water to the clean spray tank, add required quantity of product and mix well. Complete filling the tank with the balance of the water needed.

Do not allow the pesticide to come into contact with the water intake pipe. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

To avoid injury to the crop, mix only with pesticides listed on this label.

For all applications: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.

For aerial applications: DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. The nozzle type is restricted to CP®, with the following set-up restriction:

Nozzle Type Restriction

CP® **DO NOT** use greater than 30° deflection

For airblast applications: Airblast applications are only permitted on peaches and nectarines. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Buffer Zones

The buffer zones specified in the following tables are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine habitats and marine habitats.

Aerial Applications

For all aerial applications, a buffer zone of 100 metres is required for the protection of aquatic habitats.

Field Sprayer Applications^{1,2}

Rate of Application (L/ha)	Buffer Zones (metres) Required for the Protection of Aquatic Habitats With Water Depths Of:		
	< 1 metre	1-3 metres	> 3 metres
Up to 1.2	50	40	30
Greater than 1.2, and less than or equal to 2.4	55	45	35
Greater than 2.4 and up to 4.8	60	50	40

¹For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or ground, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labeled buffer zone can be reduced by 30%.

²Buffer zones are not required for treatments applied as a drench (i.e., drench applications for control of cabbage maggot, onion maggot and seedcorn maggot).

Airblast Applications

Rate of Application (L/ha)	Buffer Zones (metres) Required for the Protection of Aquatic Habitats With Water Depths Of:		
	< 1 metre	1-3 metre	> 3 metre
Up to 3.6	80	70	55

AERIAL APPLICATION

Directions for Use

Crops and rates for control of various insects are given in the table below. Uniform coverage of the crop and crop canopy is essential. Use a boom and nozzle configuration which provides optimum coverage.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 970-356-4400 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

VOLUME: Apply the recommended rate in a minimum spray volume of 20 litres per hectare.

DO NOT apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie pot holes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries habitats or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Application by aircraft is permitted only where specified in the directions for use.

A plantback interval of 30 days must be observed between application and planting of rotational crops, with the exception of radish, Chinese cabbage, pak choi and cole crops for which no plantback restriction is required.

TANK MIX COMBINATIONS WITH HERBICIDES

WARHAWK® 480 EC INSECTICIDE can be tank mixed with the herbicides listed below for wheat, oats, and barley. The mixture will control insect pests as well as grassy or broadleaf weeds as recommended on the labels of the products used.

Read carefully and follow all use directions and use precautions on both the WARHAWK® 480 EC INSECTICIDE label and the label of the herbicide to be used for tank mixing. Failure to follow the rates of use and timing of application as recommended for each product will result in unsatisfactory control of the insect or weed target pest.

NOTE: If WARHAWK® 480 EC Insecticide is added first, it may settle out and cause plugging of lines or nozzles.

When tank-mixing with the following herbicides, always add herbicide to the partially water-filled spray tank, then add the WARHAWK 480 EC INSECTICIDE, then add the remaining water:

AVENGE 200-C ¹	BUCTRIL M ³	MCPA Ester	TORDON 202 C ⁵
BANVEL ²	GLEAN ⁴	MCPA Amine	2,4-D Ester
2,4-D Amine			

¹ AVENGE 200-C is a Registered Trademark of Amvac Chemical Corporation.

² BANVEL is a Registered Trademark of BASF Corporation.

³ BUCTRIL M is a Registered Trademark of Bayer CropScience.

⁴ GLEAN is a Registered Trademark of E.I. DuPont de Nemours & Co.

⁵ TORDON 202 C is a Trademark of Dow Agrosiences.

Soil Applications

The higher rate of WARHAWK® 480 EC Insecticide should be used when the soil surface is extremely dry or the insect infestation is heavy. When preplant soil applications of WARHAWK® 480 EC Insecticide are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.

Foliar Applications

Best results will be obtained when application is made during the early evening. Apply as a broadcast application in sufficient water to ensure thorough coverage of the foliage.

Restricted Entry Intervals

The worker restricted entry level (REI) is 24 hours for all crops, except cauliflower (10 days) and tree nuts (2 days).

Sites and Pests	Rates and Directions
CANOLA	Do not apply more than once per season. Do not apply within 21 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Bertha armyworm, alfalfa looper, armyworm	Apply 0.75-1 litres in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Diamondback moth (larvae)	Apply 1-1.5 litres in 100-200 L/ha for ground application equipment, or in 40 L /ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Lygus bugs	Apply 0.5 -1 litre in 50-200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm, variegated cutworm	Apply 0.875-1.2 litres in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply to the soil or foliage. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Grasshoppers	Apply 0.58-0.875 litre in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the low rate for the control of juvenile grasshoppers and the high rate for the control of adult grasshoppers. Adjacent ungrazed and unoccupied areas such as roadsides, rights-of-way and fence lines should be treated at the first sign of infestation.
FILBERT (hazelnut)	DO NOT APPLY BY AIRCRAFT. Do not apply more than three times per season. Do not apply within 14 days of harvest. Ground application only. Do not enter treated fields until 4 days after application to conduct scouting

	activities.
Filbert aphid	Apply 4.2 – 4.8 litres of product in 100 L /ha. Apply as a foliar spray with ground application only using an airblast sprayer. Direct nozzles of air blast sprayer into the orchard when spraying border rows.
FLAX	Do not apply more than once per season. Do not apply within 21 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Bertha armyworm	Apply 0.75 -1 litres in 50-200 L/ha f or ground application equipment and 10 -30 L/ha f or aircraft. Apply as a foliar spray. Use the higher rate for larger larvae or when foliage is dense.
Army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm, variegated cutworm, armyworm	Apply 0.875-1.2 litres in 50 -200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply to the soil or foliage.
LENTIL	Application is permitted by ground application equipment or aircraft where specified. Do not apply more than once per season. Do not apply within 21 days of harvest for applications up to 0.875 L/ha. For application greater than 0.875 L/ha, do not apply within 60 days of harvest. Do not enter treated fields until 1 day after application.
Pale western cutworm	Apply once at seedling stage, when damage is first noticed. Use boom configurations that maximize spray coverage and penetration of the crop canopy. Apply 0.875 L – 1.2L in 100–200 L of water/ha f or g round application equipment, or in 20 L/ha for aircraft. Apply as a broadcast spray when damage first appears.
Grasshoppers	Use a boom and nozzle configuration which provides optimum coverage. Foliar applications: Best results will be obtained when application is made during the early evening. Apply as a broadcast application in sufficient water to ensure thorough coverage of the foliage. Use the higher rate when infestations are heavy and when foliage is dense. Apply 0.58 L – 1.2L in 50 –200 L water/ha for ground application equipment, or in 10–30 L/ha for aircraft. Apply once per year at the f lowering to early podding stage of crop. Uniform coverage of the crop and the crop canopy is essential. Use the low rate for the control of juvenile grasshoppers and the high rate for the control of adult grasshoppers. Adjacent ungrazed and unoccupied areas such as roadsides, right-of-ways and fence lines should be

	treated at the first sign of infestation.
CORN - FIELD, SWEET (Seedling treatment only)	Do not apply more than 1 application per season. Do not apply within 70 days of harvest. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT (PREPLANTING): Apply 2.4 litres in 200 -400 L/ha. Apply once as a soil treatment 3 -7 days before planting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.
STRAWBERRY	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 20 days of harvest. Do not enter treated fields until 1 day after application.
Strawberry cutworm (crown borer)	Apply 1.2 litres in 2000 L/ha. Apply once as a foliar spray between June 1 and June 15. Large volumes of water are desirable to ensure full wetting of the crown area of the plants.
CELERY, CUCUMBER, PEPPER (GREEN)	Do not apply more than once per season. Do not apply within 70 days of harvest for celery, 40 days of harvest for pepper, or 60 days of harvest for cucumber. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once as a soil treatment 3-7 days before planting or transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.
PAK CHOI, BROCCOLI, BRUSSELS SPROUT, CABBAGE, CAULIFLOWER, CHINESE CABBAGE	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application for pak choi and Chinese cabbages. Do not enter treated fields until 10 days after application for cauliflower, 1 day after application for all other crops. [See also below.] If no granular chlorpyrifos treatment has been used, do not apply more than twice per season to broccoli, cabbages, cauliflower, Chinese cabbages and pak choi, or three times per season to Brussels sprouts. If granular treatment has been used, do not apply more than once per season to broccoli, cabbages, cauliflower, Chinese cabbages and pak choi, or twice per season to Brussels sprouts. Do not apply within 32 days of harvest for broccoli, Brussels sprouts,

	cabbages, cauliflower or Chinese cabbages; or within 15 days of harvest for pak choi.												
Cabbage maggot	<p>AT-PLANTING TREATMENT: Apply 210 m L/1000 m row. Apply one drench spray in 1000 L/ha spray solution, 10 cm on each side of the plant, 7-10 days after seeding or 3 days after transplanting.</p> <p>POST PLANTING DRENCH: Mix 1.7 litres in enough water to make 1000 L of finished spray. Apply 12.5 L of this solution per 100 m of row on soil, 10 cm on each side of the plant. Do not apply to harvestable portions of the crop.</p> <p>Row Spacing L/ha</p> <table> <tr> <td>30cm</td> <td>7.0</td> </tr> <tr> <td>60cm</td> <td>3.5</td> </tr> <tr> <td>75cm</td> <td>2.8</td> </tr> <tr> <td>80cm</td> <td>2.63</td> </tr> <tr> <td>90cm</td> <td>2.33</td> </tr> <tr> <td>105cm</td> <td>2.0</td> </tr> </table> <p>If no granular treatment was used at seeding: For broccoli, Brussels sprouts, cabbages and cauliflower, apply a drench treatment within 3 days of transplanting (after plant recovery) or 7-10 days after seeding. Repeat 21 days after the transplanting drench or 28 days after the seeding drench.</p>	30cm	7.0	60cm	3.5	75cm	2.8	80cm	2.63	90cm	2.33	105cm	2.0
30cm	7.0												
60cm	3.5												
75cm	2.8												
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Black cutworm, darksided cutworm, redbacked cutworm (for BROCCOLI, BRUSSEL SPROUTS, CABBAGE, CAULIFLOWER, CHINESE CABBAGE)	<p>SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once, 3-7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.</p>												
GARLIC	Do not apply more than twice per season. Do not apply within 50 days of harvest. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.												
Onion maggot	Apply 3.5 litres in 1000 L/ha. Apply as a drench to the soil over the seedling row.												
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once, 3-7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TR EATMENT: Apply 1 .2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5-leaf stage of the crop.</p>												
RUTABAGA	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after												

	<p>application. Do not apply within 30 days of harvest. [See also below.]</p> <p>If no granular chlorpyrifos treatment has been used, do not apply more than 4 times per season. If granular chlorpyrifos treatment has been used, do not apply more than 3 times per season.</p>														
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4 litres in 20 0-400 L /ha. Apply once, 3 -7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TREATMENT: Apply 1 .2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.</p>														
Cabbage maggot	<p>Apply 210 mL in 125 L/1000 m row. Apply as a postplanting drench to soil, 10 cm on each side of the plant. Application rates for different row spacings are as follows:</p> <table border="1"> <thead> <tr> <th>Row Spacing</th> <th>L/ha</th> </tr> </thead> <tbody> <tr> <td>30 cm</td> <td>7.0</td> </tr> <tr> <td>60 cm</td> <td>3.5</td> </tr> <tr> <td>75 cm</td> <td>2.8</td> </tr> <tr> <td>80 cm</td> <td>2.6</td> </tr> <tr> <td>90 cm</td> <td>2.3</td> </tr> <tr> <td>105 cm</td> <td>2.0</td> </tr> </tbody> </table> <p>Do not apply to harvestable portions of the crop. If no granular treatment was used at seeding, apply drench treatments at 10, 28, 49 and 70 days after seeding. If granular treatment with a chlorpyrifos insecticide was used at seeding, apply drench treatments at 28, 49 and 70 days after seeding.</p>	Row Spacing	L/ha	30 cm	7.0	60 cm	3.5	75 cm	2.8	80 cm	2.6	90 cm	2.3	105 cm	2.0
Row Spacing	L/ha														
30 cm	7.0														
60 cm	3.5														
75 cm	2.8														
80 cm	2.6														
90 cm	2.3														
105 cm	2.0														
CARROT	<p>Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not apply within 60 days of harvest. Do not enter treated fields until 1 day after application.</p>														
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once per season before planting or transplanting. May also be applied to a 15 m strip adjacent to fence rows. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.</p> <p>SEEDLING TREATMENT: Apply 2 .4-4.8 litres in 200 - 400 L/ha. Apply as a broadcast spray at the 2 - to 5 -leaf stage. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry.</p>														
POTATO	<p>Ground application only (DO NOT APPLY BY</p>														

	AIRCRAFT). Do not apply more than once per season. Do not apply within 7 days of harvest. Do not enter treated fields to conduct scouting, hand weeding or irrigation activities until 1 day after application.
Colorado potato beetle (larvae), potato flea beetle, tarnished plant bug	Apply 1 Litre in 400-800 L/ha as a foliar spray.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once as a broadcast spray 3 -7 days before planting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1 .2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray when damage first appears.
SUNFLOWER	Application is permitted by ground application equipment or aircraft where specified. Do not apply more than once per season. Do not apply within 42 days of harvest. Do not enter treated fields until 1 day after application.
Army cutworm, pale western cutworm, redbacked cutworm	Ground application only (DO NOT APPLY BY AIRCRAFT). Apply 1.2 litres in 50-200 L/ha. Apply as a broadcast spray when damage first appears. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Seed weevil (buchid)	Ground or aerial application. Apply 1.2 litres in at least 20 L/ha. Apply in late July to early August when populations of weevils are observed in the sunflower heads. Aerial spray: For aerial applications, apply 1.2 L/ha in a maximum of 40 L/ha spray solution using a boom configuration that maximizes spray coverage of the target.
SUGARBEET	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not apply within 90 days of harvest. Do not enter treated fields until 1 day after application.
Pale western cutworm, redbacked cutworm	Apply 1.2 -2.4 litres in 50 -200 L/ha. Apply as a broadcast spray to crop seedlings when damage first appears. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
BARLEY, WHEAT, OATS	Do not apply more than once per season to barley or wheat. Do not apply within 60 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Armyworm (including bertha armyworm),	Apply 0. 875-1.2 litres in 50 -200 L /ha for ground application equipment or in 10-30 L/ha for aircraft. Apply

army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm	to soil or foliage. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Grasshoppers	Apply 0.58 -0.875 litres in 50 -200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a broadcast foliar spray. Use the low rate for juvenile grasshoppers and the high rate for adults. Treat adjacent ungrazed and unoccupied areas such as roadsides, rights-of-way and fence lines at the first sign of infestation.
Brown wheat mites	Apply 625 m L in 50 -200 L/ha for ground application equipment or in 10-30 L/ha for aircraft. Apply as a foliar spray.
Russian wheat aphid	Apply 0.500 L in a minimum of 100 L of water/ha for ground application equipment or in a minimum of 20 L/ha and maximum of 40 L/ha spray solution for aircraft. Apply as a foliar spray. Application can be made in spring or fall when aphids exceed the economic threshold. Use a boom configuration that will maximize spray coverage and penetration o f t he crop canopy.
Orange wheat blossom midge (WHEAT only)	Apply 0.83 -1 litre in 50-200 L/ha for ground application. Apply 1 litre in 10 -30 L/ha f or aerial application. Apply when adults reach the economic threshold and when 25% of the wheat heads have emerged from the boot, but preferably delays praying until 30% of the crop is flowering. Timing is critical to ensure good control. Applications should be made in the late afternoon or early evening when temperatures exceed 15°C and wind speed is less than 10 km /h. Apply as a foliar s pray. Use boom configurations that maximize spray coverage and penetration of crop canopy.
ONION (bulb)	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not enter treated fields until 1 day after application. Do not apply to bunching onions. [See also be low.] Do not apply within 60 days of harvest.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once per season before planting or transplanting. Application is also permitted on a 15 m strip adjacent to fence rows. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm. SEEDLING TREATMENT: Apply 2 .4-4.8 litres in 200 -

	400 L/ha. Apply as a broadcast spray at the 2 - to 5 -leaf stage. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry.
TOBACCO	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application. For application to field before tobacco is planted or transplanted.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once, 3 -7 days before planting or transplanting. If the top 1 cm or more of soil is dry, use the higher rate. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm. Also apply to a 15 m strip into adjacent cover crop and to fence rows.
Darksided cutworm	COVER CROP TREATMENT: Apply 1.125-1.2 litres in 200-400 L/ha. Darksided cutworms may feed on the cover crop before spring plough-down. Apply to the area planted to tobacco and to a strip about 15 m into nearby cover crop and fence rows. Application should be made in mid to late April, 4 to 5 days before plough-down. When the rye cover crop is about 15 cm tall, the cutworm larvae will be at the right stage for the best control. Cereals grown for cover crop treated with this insecticide should not be used for human or animal consumption if treated within 60 days of harvest.
ASIAN RADISH (LO BOK, DAIKON)	Do not apply more than 3 times per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 32 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 210 millilitres in 1000 L of water per 1000 m row. Apply as a drench over seeded rows at 7, 20 and 35 days after seeding.
RADISH	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 21 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 85 millilitres of product in 380 L of water per 1000 m row. Apply as a drench with seed at planting time.
CHINESE BROCCOLI	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 21 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 150 millilitres of product in 800 L/1000 m row. Apply once per season banded over the row 5-7 days after seeding.

WARHAWK is a registered trademark of Loveland Products Inc.
Avenge is a trademark of AMVAC Chemical Corporation
Buctril M is a trademark of Bayer CropScience Inc.
Glean is a trademark of E.I. Dupont de Nemours and Company

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: WARHAWK® 480 EC

1.2 RECOMMENDED USE: GROUP 1B INSECTICIDE

1.3 MANUFACTURED FOR AND DISTRIBUTED BY:

LOVELAND PRODUCTS CANADA, INC.
789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5

1.4 24 Hour Emergency Phone: (Chemtrec): 1-800-424-9300 (Toll Free) - **Additional Emergency Phone** 1-800-561-8273

Loveland Technical Service: 1-800-328-4678

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Flammable Liquids	Category 3	H226
Acute Toxicity – Oral	Category 3	H301
Acute Toxicity – Inhalation	Category 4	H332
Acute Toxicity – Dermal	Category 4	H312
Specific Target Organ Toxicity (Single Exposure)	Category 3	H335
Aspiration Hazard	Category 1	H304
Eye Damage/Irritation	Category 2B	H320
Sensitization – Skin	Category 1	H317

2.2 Label elements



Signal word: DANGER

Hazard Statement: H226 – Flammable liquid and vapour.
H301 – Toxic if swallowed.
H332 – Harmful if inhaled.
H312 – Harmful in contact with skin.
H335 – May cause respiratory irritation.
H304 – May be fatal if swallowed and enters airways.
H320 – Causes eye irritation.
H317 – May cause an allergic skin reaction.

Precautionary Statement: (Prevention):

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 – Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilating/lighting/equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P264 – Wash hands, face and skin thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing must not be allowed out of the workplace.



SAFETY DATA SHEET

WARHAWK® 480 EC PCP 29984

SDS NUMBER: 29984-19-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 02/04/19

SUPERSEDES: 08/09/15

Precautionary
Statement:
(Response):

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P321 – Specific treatment (see First Aid and Notes to Physician on the product label).
P330 – Rinse mouth.
P331 – Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 – Call a POISON CENTRE or doctor/physician if you feel unwell.
P362 – Take off contaminated clothing and wash it before reuse.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice/attention.
P303+P361+P353 – IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Precautionary
Statement:
(Storage):

P403+P235 – Store in a well-ventilated place. Keep cool.
P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
P405 – Store locked up.

Precautionary
Statement:
(Disposal)

P501 – Dispose of contents/container to an approved waste disposal to an approved waste disposal facility.

2.3 Other hazards

None known.

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
Chlorpyrifos	2921-88-2	480 g/L 44.90
2-Ethylhexanol	104-76-7	1.00
Solvent naphtha (petroleum), light aromatic	64742-95-6	48.60
consists of:		
1,2,4-Trimethylbenzene	95-63-6	14.40
1,3,5-Trimethylbenzene	108-67-8	3.80
Cumene	98-82-2	1.90
Xylene	1330-20-7	0.40

(Warning, contains the allergen soy)



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4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If Swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Central nervous system effects.

4.3 Immediate Medical Attention and Special Treatment

Treatment: This product contains petroleum distillates.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

NOTES TO PHYSICIAN: Chlorpyrifos is an organophosphate that is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory and cardiac depression. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness and tremor in coordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). **ANTIDOTE:** Atropine, only by injection, is the preferable antidote. Administer atropine sulphate in large doses; TWO or FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10-minute intervals until signs of atropinization appear. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of chlorpyrifos may occur and relapse may occur after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Foam, carbon dioxide (CO₂), dry chemical, soft stream or water fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but are not limited to: Oxides of sulfur. Phosphorous compounds. Oxides of nitrogen. Hydrogen chloride. Oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Vapour explosion hazard. Keep out of sewers. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions:

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark except as noted on appropriate labels. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are actively visiting the treatment area.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Contain spilled material if possible. Pump with explosion-proof equipment. If available, use foam to smother or suppress.
Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers.
Remove residual contamination.
Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL

Fatal if swallowed. May be harmful if inhaled or absorbed through skin. Causes eye irritation. May cause skin irritation. Do not get in eyes, on skin, or on clothing. Do not inhale vapours or spray mist. Handle chemical in a ventilated area. Wear protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. Remove contaminated clothing and laundry separately before reuse. Do not wear contaminated shoes or boots. Keep away from food, feedstuffs, and water supplies.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Keep away from food, drinks, and animal feedstuffs. Keep only in the original container, tightly closed. Do not store near heat or open flame.

Do not contaminate water, food or feed by storage. Store only in original container in secure, dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 38 °C (100 °F) for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Value
Chlorpyrifos	TLV	0.1 mg/m ³ (Skin) Measured as inhalable fraction and vapour
1,2,4-Trimethylbenzene	TLV	25 ppm / 123 mg/m ³
1,3,5-Trimethylbenzene	TLV	25 ppm / 123 mg/m ³
Cumene	TLV	50 ppm / 245 mg/m ³
Xylene	TLV	100 ppm / 434 mg/m ³

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Specimen
Acetylcholinesterase inhibiting pesticides	70% of individual's baseline	Cholinesterase activity in red blood cells
Xylene		URT & eye irritant; CNS impair

8.2 EXPOSURE CONTROLS:

Engineering Measures

PRECAUTIONS FOR MIXERS/LOADERS

For liquid formulations packaged in containers more than 10 L Mixers/loaders must use a closed mechanical transfer loading system.

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- an air purifying respirator with an -R or -P series filter; and
- socks and shoes.

For liquid formulations packaged in containers holding 10 L or less

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- a chemical-resistant apron;
- chemical-resistant footwear plus socks; and
- an air purifying respirator equipped with an -R or -P series filter.

PRECAUTIONS FOR APPLICATORS

Do not apply with high-pressure handwand equipment.

Applicators using airblast equipment with a closed cab must wear:

- a long-sleeved shirt and long pants
- socks and shoes
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab)

Applicators using airblast equipment with an open cab must wear:

- a long-sleeved shirt and long pants
- chemical-resistant coveralls and head protection
- socks and shoes
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter

Applicators using ground application equipment with a closed cab must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab); and
- socks and shoes.

Applicators using ground application equipment with an open cab must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves; and
- socks and shoes.

Applicators using aerial application equipment must use enclosed cockpits and must wear:

- a long-sleeved shirt and long pants; and
- socks and shoes.

Applicators using handheld equipment must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant coveralls and head protection (if spray is upwardly directed);
- chemical-resistant footwear and socks;
- chemical-resistant gloves; and an air purifying respirator with an -R or -P series filter.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Shoes plus socks. Chemical-resistant gloves, except for pilots. Chemical-resistant apron for mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear NIOSH-certified air-purifying respiratory protection with an N, P or R95 or HE class filter and organic vapour cartridge if necessary. Wear air supplied respiratory protection if exposure concentrations are unknown or if air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:	Liquid
ODOUR:	Aromatic.
ODOUR THRESHOLD:	No data available.
COLOUR:	Red.
pH:	4.3
MELTING POINT / FREEZING POINT:	No data available
BOILING POINT:	143 °C / 289 °F
FLASH POINT:	106 °F / 41 °C (TCC).
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Upper explosion limit: 6% vol. Lower explosion limit: 1% vol.
VAPOUR PRESSURE:	No data available.
SOLUBILITY:	Emulsifies.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY [Dynamic]:	3.2 mPa @ 20°C / 68°F.
SPECIFIC GRAVITY (Water = 1):	1.07 g/ml
DENSITY:	1.07 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Unstable at elevated temperatures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize.

10.4 CONDITIONS TO AVOID

Avoid temperatures above 70°C (158°F). Chlorpyrifos decomposes at elevated temperatures. Generation of gas during decomposition can cause pressure buildup in closed systems.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizers. Avoid contact with bases and strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products may be formed in a fire situation: hydrogen chloride, organic sulfides, sulfur dioxide. Incomplete combustion may lead to formation of oxides of carbon and/or other asphyxiants.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Ingestion. Eye contact. Skin absorption. Skin contact.

LC₅₀ (rat): >2.00 mg/L (4 HR) estimated.

LD₅₀ Oral (rat): Estimated: 300 mg/kg

LD₅₀ Dermal (rabbit): > 1,000 mg/kg

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): May cause moderate irritation.

Eye Irritation (rabbit): Moderate eye irritation.

Specific Target Organ Toxicity: Skin, Central Nervous System, Liver, Kidneys.

Aspiration: Vomiting may cause aspiration pneumonia.

Skin Sensitization (guinea pig): Sensitizer

Carcinogenicity: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen)

Germ Cell Mutagenicity: Minimal genetic toxicity potential.

Interactive Effects: None known.



SAFETY DATA SHEET

SDS NUMBER: 29984-19-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 02/04/19

WARHAWK® 480 EC PCP 29984
SUPERSEDES: 08/09/15

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product is toxic to fish, aquatic invertebrates, small mammals and birds. Information below is based on the active ingredient Chlorpyrifos.

Ecotoxicological Data

	Species	Test Results
Chlorpyrifos	Rainbow trout	0.003 mg/L – 96-hour LC ₅₀
	Daphnia magna	0.00068 mg/L – 48-hour EC ₅₀

Drift or runoff may adversely affect non-target plants.
Do not apply directly to water.
Do not contaminate water when disposing of equipment wash water.
Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: Below detectable levels under aerobic aquatic conditions.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Bioconcentration potential is moderate (BCF Log Pow between 3 and 5).

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer). For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable-Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

TDG Shipping Description: UN3017, ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (CHLORPYRIFOS, AROMATIC NAPHTHA), 6.1(3), III MARINE POLLUTANT

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	2 Health	0 Least	2 Health
	2 Flammability	1 Slight	2 Flammability
	1 Instability	2 Moderate	1 Reactivity
		3 High	G PPE
		4 Severe	



SAFETY DATA SHEET

WARHAWK® 480 EC PCP 29984

SDS NUMBER: 29984-19-LPI

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SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate

Y

Fire

Y

Sudden Release of Pressure

N

Delayed

Y

Reactive

N

Reportable Quantity (RQ) under U.S. CERCLA: Chlorpyrifos (CAS: 2921-88-2) 1 pound; Xylene (mixed isomers) (CAS: 1330-20-7) 100 pounds; Cumene (CAS: 98-82-8) 5000 pounds

SARA, Title III, Section 313: 1,2,4-Trimethylbenzene (CAS: 95-63-6) 14.4%; Xylene (mixed isomers) (CAS: 1330-20-7) <1.5% maximum; Cumene (CAS: 98-82-8) 1.9% maximum.

RCRA Waste Code: U239 (Xylene [mixed isomers]); U055 (Cumene).

CA Proposition 65: Not applicable

WHMIS [Canada]: Pest control products are not controlled under WHMIS. Classified D2B

OPAC Schedule 3

Read the approved label, authorized under the Pest Control Products Act, prior to handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labeling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label.



DANGER

POISON

16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Product Stewardship and Regulatory Affairs

REVIEWED BY: Safety, Health and Environment

PCP (Pest Control Products Act) Registration No. 29984

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

<Container label>

GROUP	1B	INSECTICIDE
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WARHAWK[®] 480 EC Insecticide

AGRICULTURAL

Emulsifiable Concentrate

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

DANGER



POISON

EYE AND SKIN IRRITANT

Warning, contains the allergen soy

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: Chlorpyrifos 480 g/L

REGISTRATION NUMBER 29984 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273**

NET CONTENTS: 1 - 500 L

LOVELAND PRODUCTS, INC.
3005 ROCKY MOUNTAIN
AVENUE
LOVELAND CO 80538
UNITED STATES

Distributed by:
Loveland Products Canada Inc
PO Box 5234 | 64137 Hwy 543 E
High River, AB T1V 1M4
1-800-328-4678

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL

Fatal if swallowed. May be harmful if inhaled or absorbed through skin. Causes eye irritation. May cause skin irritation. Do not get in eyes, on skin, or on clothing. Do not inhale vapours or spray mist. Handle chemical in a ventilated area. Wear protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. Remove contaminated clothing and launder separately before reuse. Do not wear contaminated shoes or boots. Keep away from food, feedstuffs, and water supplies.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S. visit CropLife Canada's website at www.croplife.ca.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Chlorpyrifos is an organophosphate that is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory and cardiac depression.

Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness and tremor in coordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful).

ANTIDOTE: Atropine, only by injection, is the preferable antidote. Administer atropine

sulphate in large doses; TWO or FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of chlorpyrifos may occur and relapse may occur after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

STORAGE

Keep away from food, drinks, and animal feedstuffs. Keep only in the original container, tightly closed. Do not store near heat or open flame.

Do not contaminate water, food or feed by storage. Store only in original container in secure, dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 38°C (100°F) for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. **The minimum recommended storage temperature for this material is 0°C (32°F). If allowed to freeze, warm to 21°C/ 70°F and shake well.**

DISPOSAL

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable-Refillable Containers:

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NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

<Detachable pamphlet>

GROUP	1B	INSECTICIDE
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WARHAWK® 480 EC Insecticide

AGRICULTURAL

Emulsifiable Concentrate

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

DANGER



POISON

EYE AND SKIN IRRITANT

Warning, contains the allergen soy

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN ACTIVE

INGREDIENT Chlorpyrifos 480 g/L

REGISTRATION NUMBER 29984 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273**

NET CONTENTS: 1 - 500 L

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If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S. visit CropLife Canada's website at www.croplife.ca.

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IF INHALED, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness and tremor in coordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful).

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use only in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of chlorpyrifos may occur and relapse may occur after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

STORAGE

Keep away from food, drinks, and animal feedstuffs. Keep only in the original container, tightly closed. Do not store near heat or open flame.

Do not contaminate water, food or feed by storage. Store only in original container in secure, dry storage area. Prevent cross-contamination with other pesticides and fertilizers. **The minimum recommended storage temperature for this material is 0°C (32°F). If allowed to freeze, warm to 21°C/ 70°F and shake well.**

Do not store above 38°C (100°F) for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

DISPOSAL

Recyclable Containers:

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2. Make the empty, rinsed container unsuitable for further use.
If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Returnable-Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product.

Do not reuse this container for any other purpose. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

ENVIRONMENTAL AND USE PRECAUTIONS

This pesticide contains a petroleum distillate and is extremely toxic to fish and aquatic organisms, toxic to birds and wild mammals. This pesticide is TOXIC to bees exposed to direct treatment, drift, or residues on blooming plants. Do not use on flowering crops or weeds. DO NOT apply this product or allow it to drift to flowering crops or weeds if bees are visiting the treatment area. Applicators should inform local bee keepers prior to application if hives are in adjacent fields. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Avoid contamination of aquatic systems such as lakes, streams, ponds, estuaries, oceans, or other waters during application. Do not contaminate these systems through direct application, disposal of waste, or cleaning of equipment. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Spilled material should be soaked up with absorbent material and disposed of in an approved manner. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted or fine textured such as clay). Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact the provincial regulatory authority or the manufacturer.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that WARHAWK® 480 EC INSECTICIDE contains a Group 1B insecticide. Any insect/mite population may contain individuals naturally resistant to WARHAWK® 480 EC INSECTICIDE and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of WARHAWK® 480 EC INSECTICIDE or other Group 1B insecticides/acaricides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.

- Insecticide/acaricide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Loveland Products Inc. at 970-685-3300.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

GENERAL INFORMATION

WARHAWK® 480 EC INSECTICIDE is active against various insect pests by contact and ingestion. It is not systemic in the plant. Treatment of plants that are under extreme drought stress may result in some crop damage. The active ingredient in this product is decomposed by sunlight.

PRECAUTIONS FOR USE

Do not spray under windy conditions or from spraying equipment which could be expected to cause spray drift onto nearby crops or pastures. Do not mix with other pesticides when used on vegetables. Compatible with most commonly used pesticides except those that are alkaline. Do not add any additional adjuvants, surfactants, or spreader-stickers.

PRECAUTIONS FOR MIXERS/LOADERS

For liquid formulations packaged in containers more than 10 L

Mixers/loaders must use a closed mechanical transfer loading system.

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- an air purifying respirator with an -R or -P series filter; and
- socks and shoes.

For liquid formulations packaged in containers holding 10 L or less

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves;
- a chemical-resistant apron;
- chemical-resistant footwear plus socks; and
- an air purifying respirator equipped with an -R or -P series filter.

PRECAUTIONS FOR APPLICATORS

Do not apply with high-pressure handwand equipment.

Applicators using airblast equipment with a closed cab must wear:

- a long-sleeved shirt and long pants
- socks and shoes
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab)

Applicators using airblast equipment with an open cab must wear:

- a long-sleeved shirt and long pants
- chemical-resistant coveralls and head protection
- socks and shoes
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter

Applicators using ground application equipment with a closed cab must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant gloves when leaving cab for clean-up and repair (gloves must be removed and left outside when re-entering the cab); and
- socks and shoes.

Applicators using ground application equipment with an open cab must wear:

- coveralls over a long-sleeved shirt and long pants;
- chemical-resistant gloves; and
- socks and shoes.

Applicators using aerial application equipment must use enclosed cockpits and must wear:

- a long-sleeved shirt and long pants; and
- socks and shoes.

Applicators using handheld equipment must wear:

- a long-sleeved shirt and long pants;
- chemical-resistant coveralls and head protection (if spray is upwardly directed);
- chemical-resistant footwear and socks;
- chemical-resistant gloves; and
- an air purifying respirator with an -R or -P series filter.

DIRECTIONS FOR USE

MIXING: To prepare the spray, add approximately 1/4 of the required amount of water to the clean spray tank, add required quantity of product and mix well. Complete filling the tank with the balance of the water needed.

Do not allow the pesticide to come into contact with the water intake pipe. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

To avoid injury to the crop, mix only with pesticides listed on this label.

For all applications: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.

For aerial applications: DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. The nozzle type is restricted to CP®, with the following set-up restriction:

Nozzle Type Restriction

CP® **DO NOT** use greater than 30° deflection

For airblast applications: Airblast applications are only permitted on peaches and nectarines. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Buffer Zones

The buffer zones specified in the following tables are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine habitats and marine habitats.

Aerial Applications

For all aerial applications, a buffer zone of 100 metres is required for the protection of aquatic habitats.

Field Sprayer Applications^{1,2}

Rate of Application (L/ha)	Buffer Zones (metres) Required for the Protection of Aquatic Habitats With Water Depths Of:		
	< 1 metre	1-3 metres	> 3 metres
Up to 1.2	50	40	30
Greater than 1.2, and less than or equal to 2.4	55	45	35
Greater than 2.4 and up to 4.8	60	50	40

¹For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or ground, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labeled buffer zone can be reduced by 30%.

²Buffer zones are not required for treatments applied as a drench (i.e., drench applications for control of cabbage maggot, onion maggot and seedcorn maggot).

Airblast Applications

Rate of Application (L/ha)	Buffer Zones (metres) Required for the Protection of Aquatic Habitats With Water Depths Of:		
	< 1 metre	1-3 metre	> 3 metre
Up to 3.6	80	70	55

AERIAL APPLICATION

Directions for Use

Crops and rates for control of various insects are given in the table below. Uniform coverage of the crop and crop canopy is essential. Use a boom and nozzle configuration which provides optimum coverage.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 970-356-4400 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

VOLUME: Apply the recommended rate in a minimum spray volume of 20 litres per hectare.

DO NOT apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie pot holes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries habitats or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Application by aircraft is permitted only where specified in the directions for use.

A plantback interval of 30 days must be observed between application and planting of rotational crops, with the exception of radish, Chinese cabbage, pak choi and cole crops for which no plantback restriction is required.

TANK MIX COMBINATIONS WITH HERBICIDES

WARHAWK® 480 EC INSECTICIDE can be tank mixed with the herbicides listed below for wheat, oats, and barley. The mixture will control insect pests as well as grassy or broadleaf weeds as recommended on the labels of the products used.

Read carefully and follow all use directions and use precautions on both the WARHAWK® 480 EC INSECTICIDE label and the label of the herbicide to be used for tank mixing. Failure to follow the rates of use and timing of application as recommended for each product will result in unsatisfactory control of the insect or weed target pest.

NOTE: If WARHAWK® 480 EC Insecticide is added first, it may settle out and cause plugging of lines or nozzles.

When tank-mixing with the following herbicides, always add herbicide to the partially water-filled spray tank, then add the WARHAWK 480 EC INSECTICIDE, then add the remaining water:

AVENGE 200-C ¹	BUCTRIL M ³	MCPA Ester	TORDON 202 C ⁵
BANVEL ²	GLEAN ⁴	MCPA Amine	2,4-D Ester
2,4-D Amine			

¹ AVENGE 200-C is a Registered Trademark of Amvac Chemical Corporation.

² BANVEL is a Registered Trademark of BASF Corporation.

³ BUCTRIL M is a Registered Trademark of Bayer CropScience.

⁴ GLEAN is a Registered Trademark of E.I. DuPont de Nemours & Co.

⁵ TORDON 202 C is a Trademark of Dow Agrosiences.

Soil Applications

The higher rate of WARHAWK® 480 EC Insecticide should be used when the soil surface is extremely dry or the insect infestation is heavy. When preplant soil applications of WARHAWK® 480 EC Insecticide are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.

Foliar Applications

Best results will be obtained when application is made during the early evening. Apply as a broadcast application in sufficient water to ensure thorough coverage of the foliage.

Restricted Entry Intervals

The worker restricted entry level (REI) is 24 hours for all crops, except cauliflower (10 days) and tree nuts (2 days).

Sites and Pests	Rates and Directions
CANOLA	Do not apply more than once per season. Do not apply within 21 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Bertha armyworm, alfalfa looper, armyworm	Apply 0.75-1 litres in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Diamondback moth (larvae)	Apply 1-1.5 litres in 100-200 L/ha for ground application equipment, or in 40 L /ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Lygus bugs	Apply 0.5 -1 litre in 50-200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the higher rate of dilution when infestations are heavy and when the foliage is dense. Spray in the evening to reduce harm to pollinators.
Army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm, variegated cutworm	Apply 0.875-1.2 litres in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply to the soil or foliage. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Grasshoppers	Apply 0.58-0.875 litre in 50-200 L/ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a foliar spray. Use the low rate for the control of juvenile grasshoppers and the high rate for the control of adult grasshoppers. Adjacent ungrazed and unoccupied areas such as roadsides, rights-of-way and fence lines should be treated at the first sign of infestation.
FILBERT (hazelnut)	DO NOT APPLY BY AIRCRAFT. Do not apply more than three times per season. Do not apply within 14 days of harvest. Ground application only. Do not enter treated fields until 4 days after application to conduct scouting

	activities.
Filbert aphid	Apply 4.2 – 4.8 litres of product in 100 L /ha. Apply as a foliar spray with ground application only using an airblast sprayer. Direct nozzles of air blast sprayer into the orchard when spraying border rows.
FLAX	Do not apply more than once per season. Do not apply within 21 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Bertha armyworm	Apply 0.75 -1 litres in 50-200 L/ha f or ground application equipment and 10 -30 L/ha f or aircraft. Apply as a foliar spray. Use the higher rate for larger larvae or when foliage is dense.
Army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm, variegated cutworm, armyworm	Apply 0.875-1.2 litres in 50 -200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply to the soil or foliage.
LENTIL	Application is permitted by ground application equipment or aircraft where specified. Do not apply more than once per season. Do not apply within 21 days of harvest for applications up to 0.875 L/ha. For application greater than 0.875 L/ha, do not apply within 60 days of harvest. Do not enter treated fields until 1 day after application.
Pale western cutworm	Apply once at seedling stage, when damage is first noticed. Use boom configurations that maximize spray coverage and penetration of the crop canopy. Apply 0.875 L – 1.2L in 100–200 L of water/ha f or g round application equipment, or in 20 L/ha for aircraft. Apply as a broadcast spray when damage first appears.
Grasshoppers	Use a boom and nozzle configuration which provides optimum coverage. Foliar applications: Best results will be obtained when application is made during the early evening. Apply as a broadcast application in sufficient water to ensure thorough coverage of the foliage. Use the higher rate when infestations are heavy and when foliage is dense. Apply 0.58 L – 1.2L in 50 –200 L water/ha for ground application equipment, or in 10–30 L/ha for aircraft. Apply once per year at the f lowering to early podding stage of crop. Uniform coverage of the crop and the crop canopy is essential. Use the low rate for the control of juvenile grasshoppers and the high rate for the control of adult grasshoppers. Adjacent ungrazed and unoccupied areas such as roadsides, right-of-ways and fence lines should be

	treated at the first sign of infestation.
CORN - FIELD, SWEET (Seedling treatment only)	Do not apply more than 1 application per season. Do not apply within 70 days of harvest. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT (PREPLANTING): Apply 2.4 litres in 200 -400 L/ha. Apply once as a soil treatment 3 -7 days before planting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.
STRAWBERRY	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 20 days of harvest. Do not enter treated fields until 1 day after application.
Strawberry cutworm (crown borer)	Apply 1.2 litres in 2000 L/ha. Apply once as a foliar spray between June 1 and June 15. Large volumes of water are desirable to ensure full wetting of the crown area of the plants.
CELERY, CUCUMBER, PEPPER (GREEN)	Do not apply more than once per season. Do not apply within 70 days of harvest for celery, 40 days of harvest for pepper, or 60 days of harvest for cucumber. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once as a soil treatment 3-7 days before planting or transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.
PAK CHOI, BROCCOLI, BRUSSELS SPROUT, CABBAGE, CAULIFLOWER, CHINESE CABBAGE	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application for pak choi and Chinese cabbages. Do not enter treated fields until 10 days after application for cauliflower, 1 day after application for all other crops. [See also below.] If no granular chlorpyrifos treatment has been used, do not apply more than twice per season to broccoli, cabbages, cauliflower, Chinese cabbages and pak choi, or three times per season to Brussels sprouts. If granular treatment has been used, do not apply more than once per season to broccoli, cabbages, cauliflower, Chinese cabbages and pak choi, or twice per season to Brussels sprouts. Do not apply within 32 days of harvest for broccoli, Brussels sprouts,

	cabbages, cauliflower or Chinese cabbages; or within 15 days of harvest for pak choi.												
Cabbage maggot	<p>AT-PLANTING TREATMENT: Apply 210 m L/1000 m row. Apply one drench spray in 1000 L/ha spray solution, 10 cm on each side of the plant, 7-10 days after seeding or 3 days after transplanting.</p> <p>POST PLANTING DRENCH: Mix 1.7 litres in enough water to make 1000 L of finished spray. Apply 12.5 L of this solution per 100 m of row on soil, 10 cm on each side of the plant. Do not apply to harvestable portions of the crop.</p> <p>Row Spacing L/ha</p> <table> <tr> <td>30cm</td> <td>7.0</td> </tr> <tr> <td>60cm</td> <td>3.5</td> </tr> <tr> <td>75cm</td> <td>2.8</td> </tr> <tr> <td>80cm</td> <td>2.63</td> </tr> <tr> <td>90cm</td> <td>2.33</td> </tr> <tr> <td>105cm</td> <td>2.0</td> </tr> </table> <p>If no granular treatment was used at seeding: For broccoli, Brussels sprouts, cabbages and cauliflower, apply a drench treatment within 3 days of transplanting (after plant recovery) or 7-10 days after seeding. Repeat 21 days after the transplanting drench or 28 days after the seeding drench.</p>	30cm	7.0	60cm	3.5	75cm	2.8	80cm	2.63	90cm	2.33	105cm	2.0
30cm	7.0												
60cm	3.5												
75cm	2.8												
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90cm	2.33												
105cm	2.0												
Black cutworm, darksided cutworm, redbacked cutworm (for BROCCOLI, BRUSSEL SPROUTS, CABBAGE, CAULIFLOWER, CHINESE CABBAGE)	<p>SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once, 3-7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.</p>												
GARLIC	Do not apply more than twice per season. Do not apply within 50 days of harvest. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application.												
Onion maggot	Apply 3.5 litres in 1000 L/ha. Apply as a drench to the soil over the seedling row.												
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once, 3-7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TR EATMENT: Apply 1 .2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5-leaf stage of the crop.</p>												
RUTABAGA	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after												

	<p>application. Do not apply within 30 days of harvest. [See also below.]</p> <p>If no granular chlorpyrifos treatment has been used, do not apply more than 4 times per season. If granular chlorpyrifos treatment has been used, do not apply more than 3 times per season.</p>														
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4 litres in 20 0-400 L /ha. Apply once, 3 -7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows.</p> <p>SEEDLING TREATMENT: Apply 1 .2-2.4 litres in 200 - 400 L/ha. Apply once as a broadcast spray at the 2- to 5- leaf stage of the crop.</p>														
Cabbage maggot	<p>Apply 210 mL in 125 L/1000 m row. Apply as a postplanting drench to soil, 10 cm on each side of the plant. Application rates for different row spacings are as follows:</p> <table border="1"> <thead> <tr> <th>Row Spacing</th> <th>L/ha</th> </tr> </thead> <tbody> <tr> <td>30 cm</td> <td>7.0</td> </tr> <tr> <td>60 cm</td> <td>3.5</td> </tr> <tr> <td>75 cm</td> <td>2.8</td> </tr> <tr> <td>80 cm</td> <td>2.6</td> </tr> <tr> <td>90 cm</td> <td>2.3</td> </tr> <tr> <td>105 cm</td> <td>2.0</td> </tr> </tbody> </table> <p>Do not apply to harvestable portions of the crop. If no granular treatment was used at seeding, apply drench treatments at 10, 28, 49 and 70 days after seeding. If granular treatment with a chlorpyrifos insecticide was used at seeding, apply drench treatments at 28, 49 and 70 days after seeding.</p>	Row Spacing	L/ha	30 cm	7.0	60 cm	3.5	75 cm	2.8	80 cm	2.6	90 cm	2.3	105 cm	2.0
Row Spacing	L/ha														
30 cm	7.0														
60 cm	3.5														
75 cm	2.8														
80 cm	2.6														
90 cm	2.3														
105 cm	2.0														
CARROT	<p>Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not apply within 60 days of harvest. Do not enter treated fields until 1 day after application.</p>														
Black cutworm, darksided cutworm, redbacked cutworm	<p>SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once per season before planting or transplanting. May also be applied to a 15 m strip adjacent to fence rows. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.</p> <p>SEEDLING TREATMENT: Apply 2 .4-4.8 litres in 200 - 400 L/ha. Apply as a broadcast spray at the 2 - to 5 -leaf stage. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry.</p>														
POTATO	<p>Ground application only (DO NOT APPLY BY</p>														

	AIRCRAFT). Do not apply more than once per season. Do not apply within 7 days of harvest. Do not enter treated fields to conduct scouting, hand weeding or irrigation activities until 1 day after application.
Colorado potato beetle (larvae), potato flea beetle, tarnished plant bug	Apply 1 Litre in 400-800 L/ha as a foliar spray.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4 litres in 200 -400 L /ha. Apply once as a broadcast spray 3 -7 days before planting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1 .2-2.4 litres in 200 -400 L/ha. Apply once as a broadcast spray when damage first appears.
SUNFLOWER	Application is permitted by ground application equipment or aircraft where specified. Do not apply more than once per season. Do not apply within 42 days of harvest. Do not enter treated fields until 1 day after application.
Army cutworm, pale western cutworm, redbacked cutworm	Ground application only (DO NOT APPLY BY AIRCRAFT). Apply 1.2 litres in 50-200 L/ha. Apply as a broadcast spray when damage first appears. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Seed weevil (buchid)	Ground or aerial application. Apply 1.2 litres in at least 20 L/ha. Apply in late July to early August when populations of weevils are observed in the sunflower heads. Aerial spray: For aerial applications, apply 1.2 L/ha in a maximum of 40 L/ha spray solution using a boom configuration that maximizes spray coverage of the target.
SUGARBEET	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not apply within 90 days of harvest. Do not enter treated fields until 1 day after application.
Pale western cutworm, redbacked cutworm	Apply 1.2 -2.4 litres in 50 -200 L/ha. Apply as a broadcast spray to crop seedlings when damage first appears. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
BARLEY, WHEAT, OATS	Do not apply more than once per season to barley or wheat. Do not apply within 60 days of harvest. Application is permitted by ground application equipment or aircraft where specified. Do not enter treated fields until 1 day after application.
Armyworm (including bertha armyworm),	Apply 0. 875-1.2 litres in 50 -200 L /ha for ground application equipment or in 10-30 L/ha for aircraft. Apply

army cutworm, darksided cutworm, pale western cutworm, redbacked cutworm	to soil or foliage. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm.
Grasshoppers	Apply 0.58 -0.875 litres in 50 -200 L /ha for ground application equipment, or in 10-30 L/ha for aircraft. Apply as a broadcast foliar spray. Use the low rate for juvenile grasshoppers and the high rate for adults. Treat adjacent ungrazed and unoccupied areas such as roadsides, rights-of-way and fence lines at the first sign of infestation.
Brown wheat mites	Apply 625 m L in 50 -200 L/ha for ground application equipment or in 10-30 L/ha for aircraft. Apply as a foliar spray.
Russian wheat aphid	Apply 0.500 L in a minimum of 100 L of water/ha for ground application equipment or in a minimum of 20 L/ha and maximum of 40 L/ha spray solution for aircraft. Apply as a foliar spray. Application can be made in spring or fall when aphids exceed the economic threshold. Use a boom configuration that will maximize spray coverage and penetration o f t he crop canopy.
Orange wheat blossom midge (WHEAT only)	Apply 0.83 -1 litre in 50-200 L/ha for ground application. Apply 1 litre in 10 -30 L/ha f or aerial application. Apply when adults reach the economic threshold and when 25% of the wheat heads have emerged from the boot, but preferably delays praying until 30% of the crop is flowering. Timing is critical to ensure good control. Applications should be made in the late afternoon or early evening when temperatures exceed 15°C and wind speed is less than 10 km /h. Apply as a foliar s pray. Use boom configurations that maximize spray coverage and penetration of crop canopy.
ONION (bulb)	Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply more than once per season. Do not enter treated fields until 1 day after application. Do not apply to bunching onions. [See also be low.] Do not apply within 60 days of harvest.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once per season before planting or transplanting. Application is also permitted on a 15 m strip adjacent to fence rows. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm. SEEDLING TREATMENT: Apply 2 .4-4.8 litres in 200 -

	400 L/ha. Apply as a broadcast spray at the 2- to 5-leaf stage. Use the low rate except under conditions of low soil moisture. Use the high rate if the top 1 cm of soil is dry.
TOBACCO	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not enter treated fields until 1 day after application. For application to field before tobacco is planted or transplanted.
Black cutworm, darksided cutworm, redbacked cutworm	SOIL TREATMENT: Apply 2.4-4.8 litres in 200-400 L/ha. Apply once, 3 -7 days before planting or transplanting. If the top 1 cm or more of soil is dry, use the higher rate. When preplant soil applications are being made to muck soil, do not incorporate. Incorporation on mineral soils should be no deeper than 5 cm. Also apply to a 15 m strip into adjacent cover crop and to fence rows.
Darksided cutworm	COVER CROP TREATMENT: Apply 1.125-1.2 litres in 200-400 L/ha. Darksided cutworms may feed on the cover crop before spring plough-down. Apply to the area planted to tobacco and to a strip about 15 m into nearby cover crop and fence rows. Application should be made in mid to late April, 4 to 5 days before plough-down. When the rye cover crop is about 15 cm tall, the cutworm larvae will be at the right stage for the best control. Cereals grown for cover crop treated with this insecticide should not be used for human or animal consumption if treated within 60 days of harvest.
ASIAN RADISH (LO BOK, DAIKON)	Do not apply more than 3 times per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 32 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 210 millilitres in 1000 L of water per 1000 m row. Apply as a drench over seeded rows at 7, 20 and 35 days after seeding.
RADISH	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 21 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 85 millilitres of product in 380 L of water per 1000 m row. Apply as a drench with seed at planting time.
CHINESE BROCCOLI	Do not apply more than once per season. Ground application only (DO NOT APPLY BY AIRCRAFT). Do not apply within 21 days of harvest. Do not enter treated fields until 1 day after application.
Cabbage maggot	Apply 150 millilitres of product in 800 L/1000 m row. Apply once per season banded over the row 5-7 days after seeding.

WARHAWK is a registered trademark of Loveland Products Inc.
Avenge is a trademark of AMVAC Chemical Corporation
Buctril M is a trademark of Bayer CropScience Inc.
Glean is a trademark of E.I. Dupont de Nemours and Company

EN CAS D'URGENCE RÉSULTANT D'UN DÉVERSEMENT IMPORTANT, D'UN INCENDIE OU D'UNE INTOXICATION IMPLIQUANT CE PRODUIT, TÉLÉPHONER EN TOUT TEMPS AU 1-800-561-8273 OU À CHEMTREC : 1-800-424-9300

1. IDENTIFICATION DU PRODUIT ET RENSEIGNEMENTS SUR LE FOURNISSEUR
1.1 Identification du produit :
Nom commercial : WARHAWK® 480 EC

1.2 Usages recommandés : INSECTICIDE DU GROUPE 1B

1.3 Fabriqué pour et Distribué par :

 LOVELAND PRODUCTS CANADA, INC.
 789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5

1.4 Numéro d'urgence 24 h (Chemtrec) : 1-800-424-9300 (Sans frais)

Autre numéro d'urgence : 1-800-561-8273

Services techniques de Loveland : 1-800-328-4678

Centre national d'intervention d'urgence de la Garde côtière américaine : 1-800-424-8802

2. IDENTIFICATION DES RISQUES
2.1 Classification de la substance ou du mélange

Liquides inflammables	Catégorie 3	H226
Toxicité aiguë - Orale	Catégorie 3	H301
Toxicité aiguë - Inhalation	Catégorie 4	H332
Toxicité aiguë - Cutanée	Catégorie 4	H312
Toxicité pour un organe spécifique (exposition simple)	Catégorie 3	H335
Risque d'aspiration	Catégorie 1	H304
Domage/Irritation oculaire	Catégorie 2B	H320
Sensibilisation - Peau	Catégorie 1	H317

2.2 Éléments d'étiquetage


Termes d'avertissement :

Codes de danger :

DANGER

H226 – Liquides et vapeurs inflammables.

H301 – Toxique en cas d'ingestion.

H332 – Nocif par inhalation.

H312 – Nocif par contact cutané.

H335 – Peut irriter les voies respiratoires.

H304 – Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires.

H320 – Cause l'irritation des yeux.

H317 – Peut provoquer une allergie cutanée.

 Conseils de prudence :
 (Prévention)

P210 – Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. - Ne pas fumer.

P233 – Maintenir le récipient fermé de manière étanche.

P240 – Mise à la terre/liaison équipotentielle du récipient et du matériel de réception.

P241 – Utiliser du matériel électrique/de ventilation/d'éclairage/antidéflagrant.

P242 – Ne pas utiliser d'outils produisant des étincelles.

P243 – Prendre des mesures de précaution contre les décharges électriques.

P280 – Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.

P264 – Se laver soigneusement les mains, le visage et la peau après manipulation.

P270 – Ne pas manger, boire ou fumer en manipulant le produit.

P261 – Éviter de respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.

P271 – Utiliser seulement en plein air ou dans un endroit bien ventilé.

P272 – Les vêtements de travail contaminés ne devraient pas sortir du lieu de travail.

Conseils de prudence : (Intervention)	<p>P301+P310 – EN CAS D'INGESTION : appeler immédiatement un CENTRE ANTIPOISON ou un médecin.</p> <p>P321 – Traitement spécifique (voir section Premiers soins et Remarques pour le médecin sur l'étiquette).</p> <p>P330 – Rincer la bouche.</p> <p>P331 – NE PAS faire vomir.</p> <p>P302+P352 – EN CAS DE CONTACT AVEC LA PEAU : laver abondamment à l'eau et au savon.</p> <p>P333+P313 – En cas d'irritation ou d'éruption cutanée : consulter un médecin.</p> <p>P304+P340 – EN CAS D'INHALATION : transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer.</p> <p>P312 – Appeler un CENTRE ANTIPOISON ou un médecin en cas de malaise.</p> <p>P362 – Enlever les vêtements contaminés et les laver avant réutilisation.</p> <p>P305+P351+P338 – EN CAS DE CONTACT AVEC LES YEUX : rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être enlevées facilement. Continuer à rincer.</p> <p>P337+P313 – Si l'irritation oculaire persiste : consulter un médecin.</p> <p>P303+P361+P353 – EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux) : enlever immédiatement les vêtements contaminés. Rincer à l'eau/se doucher.</p> <p>P370+P378 – En cas d'incendie : utiliser du sable, des produits chimiques secs ou une mousse résistante à l'alcool pour l'extinction.</p>
Conseils de prudence (Entreposage)	<p>P403+P235 – Stocker dans un endroit bien ventilé. Tenir au frais.</p> <p>P403+P233 – Stocker dans un endroit bien ventilé. Maintenir le récipient fermé de manière étanche.</p> <p>P405 – Garder sous clé.</p>
Conseils de prudence : (Élimination)	<p>P501 – Éliminer le contenu/récipient en respectant la réglementation locale, provinciale et nationale.</p>

2.3 Autres dangers

Aucun connu.

3. COMPOSITION, RENSEIGNEMENTS SUR LES INGRÉDIENTS

3.2 Mélanges

Ingrédients chimiques	N° de CAS	Concentration [%]
Chlorpyrifos	2921-88-2	480 g/L 44,90
Alcool 2-éthylhexylique	104-76-7	1,00
Solvant naphta (pétrole), fraction des aromatiques légers consistant en :	64742-95-6	48,60
- Triméthyl-1,2,4 benzène	95-63-6	14,40
- Triméthyl-1,3,5 benzène	108-67-8	3,80
- Cumène	98-82-2	1,90
- Xylène	1330-20-7	0,40

Avertissement : contient l'allergène soya.



4. PREMIERS SOINS

4.1 Descriptions des mesures de premiers soins

Recommandation générale : Consulter un médecin en cas de symptômes.

En cas de contact avec les yeux : Rincer les yeux à l'eau doucement et lentement pendant 15 à 20 minutes en tenant les paupières ouvertes. Si la personne porte des lentilles cornéennes, les retirer après 5 minutes, puis continuer à rincer. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement à administrer.

En cas d'ingestion : Appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement à administrer. Si la personne incommodée est capable d'avaler, lui faire boire un verre d'eau à petites gorgées. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne jamais rien administrer par la bouche à une personne inconsciente.

En cas de contact avec la peau/vêtements :

Retirer tous les vêtements contaminés. Bien rincer la peau à grande eau immédiatement pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour des conseils sur le traitement à administrer.

En cas d'inhalation :

Déplacer la personne vers une source d'air frais. Si la personne ne respire plus, appeler le 911 ou une ambulance, puis pratiquer la respiration artificielle, de préférence le bouche-à-bouche, si possible. Appeler un centre antipoison ou un médecin pour obtenir plus de conseils sur le traitement à administrer.

4.2 Principaux symptômes et effets, tant aigus que différés

Symptômes : Effets sur le système nerveux central.

4.3 Soins médicaux immédiats et traitements particuliers éventuels

Traitement : Ce produit contient des distillats de pétrole.

POUR TOUTE URGENCE MÉDICALE CONCERNANT CE PRODUIT, COMPOSER LE 1-800-561-8273.

Avoir l'étiquette, le contenant ou le nom du produit ainsi que son numéro d'homologation de produit antiparasitaire lorsqu'on cherche à obtenir des soins médicaux.

REMARQUES POUR LE MÉDECIN : Le chlorpyrifos est un composé organophosphoré, inhibiteur de la cholinestérase, qui affecte les systèmes nerveux central et périphérique et produit une dépression respiratoire et cardiaque. Les symptômes habituels de surexposition aux inhibiteurs de la cholinestérase sont les maux de tête, les nausées, les vertiges, les sueurs, la salivation excessive, l'écoulement nasal et le larmolement. Dans les cas d'intoxication plus graves, les symptômes peuvent aller jusqu'à des contractions musculaires, de la faiblesse et des tremblements, l'incoordination, le vomissement, les crampes abdominales et la diarrhée. L'intoxication peut être mortelle en cas de perte de conscience, d'incontinence, de convulsions et de dépression respiratoire avec composante secondaire cardiovasculaire. Traiter selon les symptômes. Après une exposition, des tests de cholinestérase plasmique et érythrocytaire peuvent refléter le degré d'exposition (les données de référence sont utiles).
ANTIDOTE : L'atropine, administrée uniquement par injection, est le meilleur antidote. Administrer du sulfate d'atropine en fortes doses, soit DEUX ou QUATRE mg par voie intraveineuse ou intramusculaire dès que la cyanose est surmontée. Répéter à des intervalles de 5 à 10 minutes jusqu'à l'obtention de signes d'atropinisation. Les oximes, comme le chlorure de pralidoxime, peuvent avoir un effet thérapeutique si on les administre à un stade précoce. Cependant, ces produits ne doivent être employés que conjointement avec l'atropine. **NE PAS ADMINISTRER DE MORPHINE OU DE TRANQUILISANTS.** En cas d'intoxication aiguë grave, administrer les antidotes immédiatement après avoir ouvert les voies respiratoires et rétabli la respiration. En cas d'exposition par voie orale, la décision de provoquer ou non le vomissement doit être prise par le médecin traitant. Si des signes d'œdème pulmonaire se manifestent, le patient devrait recevoir un supplément d'oxygène et être traité selon les symptômes. L'absorption de chlorpyrifos peut se poursuivre et causer une rechute après une amélioration initiale de l'état du patient. **UNE SURVEILLANCE MÉDICALE TRÈS ÉTROITE DU PATIENT EST RECOMMANDÉE PENDANT AU MOINS 48 HEURES.**

REMARQUE : Ce produit contient un solvant qui est un distillat du pétrole – Le vomissement peut causer une pneumonie par aspiration.

5. TECHNIQUES DE LUTTE CONTRE L'INCENDIE

5.1 Moyens d'extinction

Moyens d'extinction appropriés :

Utiliser un agent extincteur approprié pour lutter contre le feu. Mousse, dioxyde de carbone (CO₂), produit chimique sec, jet léger ou brouillard d'eau.

5.2 Dangers particuliers résultant de la substance ou du mélange

Dangers particuliers durant la lutte contre le feu :

Pendant un incendie, la fumée qui se dégage peut contenir le produit d'origine en plus de produits de combustion de composition variée qui peuvent être toxiques et/ou irritants. Les produits de combustion peuvent inclure, sans s'y limiter : des oxydes de soufre, des composés phosphorés, des oxydes d'azote, du chlorure d'hydrogène et des oxydes de carbone.

5.3 Équipement de protection et précautions particuliers pour les pompiers

Équipement de protection particulier pour les pompiers :

Les personnes combattant un feu important impliquant des produits chimiques devraient porter un appareil respiratoire autonome et un équipement de protection complet. Utiliser de l'eau pulvérisée pour refroidir les contenants exposés au feu. Tenir les gens à l'écart. Isoler la zone d'incendie et en interdire l'accès aux personnes dont la présence est inutile.

6. MESURES EN CAS DE DÉVERSEMENTS ACCIDENTELS

6.1 Précautions personnelles, équipement de protection individuelle et mesures d'urgence

Précautions personnelles : Isoler la zone contaminée et en interdire l'accès à toute personne non protégée et/ou dont la présence n'est pas nécessaire. Tenir le personnel à l'écart des zones basses. Rester en amont du déversement par rapport au vent. Ventiler la zone affectée par le déversement ou la fuite. Ne pas fumer dans cette zone. Pour éviter un incendie ou une explosion, éliminer toutes les sources d'inflammation à proximité du déversement ou des vapeurs émises. Risque d'explosion de nuage de vapeur. Ne pas laisser le produit s'écouler dans les égouts. Se référer à la section 7, « Manipulation et entreposage », pour des mesures de précaution additionnelles. Utiliser un équipement de protection approprié. Pour plus de renseignements, se référer à la section 8, « Exposition/Protection personnelle ».

6.2 Précautions environnementales

Précautions environnementales : Ce pesticide est toxique pour les poissons, les invertébrés aquatiques, les petits mammifères et les oiseaux. Ne pas appliquer directement sur l'eau, les endroits recouverts d'eau de surface ou les zones intertidales situées sous la ligne moyenne des hautes eaux, sous réserve de ce qui est mentionné sur les étiquettes appropriées. La dérive et le ruissellement à partir des zones traitées peuvent représenter un risque pour les organismes aquatiques des zones environnantes. Ne pas contaminer les plans d'eau lors de l'élimination de l'eau de lavage et de rinçage de l'équipement. Ce produit est très toxique pour les abeilles exposées directement au traitement ou aux résidus sur les cultures ou les mauvaises herbes en fleur. Ne pas appliquer ce produit ou le laisser dériver sur les cultures ou les mauvaises herbes en fleur lorsque les abeilles butinent activement dans la zone à traiter.

6.3 Méthodes et matériaux de confinement et de nettoyage

Méthodes de nettoyage : Déversements majeurs : Endiguer le produit déversé si possible. Utiliser un équipement de pompage antidéflagrant. Si disponible, utiliser de la mousse antidéflagrante.
Déversements mineurs : Absorber le produit déversé avec une matière absorbante : Argile. Poussière. Sable. Bien nettoyer la surface. Déposer dans des contenants appropriés et correctement étiquetés. Éliminer toute contamination résiduelle.
Ne jamais remettre les produits déversés dans les contenants d'origine pour réutilisation.

7. MANIPULATION ET ENTREPOSAGE

7.1 Précautions à prendre pour une manipulation sécuritaire

Conseils pour une manipulation sécuritaire :

TENIR À L'ÉCART DES ENFANTS ET DU PERSONNEL NON AUTORISÉ

MORTEL EN CAS D'INGESTION. Peut être nocif si ingéré ou absorbé par la peau. Cause l'irritation des yeux. Peut causer une irritation cutanée. Ne pas laisser le produit entrer en contact avec les yeux, la peau ou les vêtements. Ne pas respirer le brouillard ou les vapeurs du produit. Manipuler dans un endroit aéré. Porter un équipement de protection individuelle et des gants de caoutchouc durant la manipulation. Bien se laver avec du savon et de l'eau après la manipulation et avant de manger, boire et/ou fumer. Retirer les vêtements contaminés et les laver séparément avant de les porter à nouveau. Ne pas circuler avec des souliers ou des bottes contaminés. Tenir à l'écart des aliments de consommation humaine, de la nourriture pour animaux et des réserves d'eau.

7.2 Conditions pour un entreposage sécuritaire

Exigences pour les lieux de stockage et les contenants :

Tenir à l'écart des aliments, des breuvages et de la nourriture pour animaux. Conserver uniquement dans le contenant original, hermétiquement fermé. Ne pas conserver près d'une source de chaleur ou d'une flamme nue.

Ne pas contaminer l'eau, les aliments de consommation humaine et la nourriture pour animaux durant l'entreposage. Conserver uniquement dans le contenant original dans un endroit sécuritaire et sec. Empêcher la contamination croisée avec les autres pesticides et les engrais. Ne pas conserver à une température supérieure à 38 °C (100 °F) pendant de longues périodes. Si le contenant est endommagé ou s'il se produit un déversement, utiliser le produit immédiatement ou éliminer le produit et le contenant endommagé tel qu'indiqué dans cette fiche.

8. EXPOSITION/PROTECTION PERSONNELLE
8.1 PARAMÈTRES DE CONTRÔLE
LIMITES D'EXPOSITION PROFESSIONNELLE

Ingrédients	Type	Valeur
Chlorpyrifos	VLE (valeur limite d'exposition)	0,1 mg/m ³ (Peau) Mesurée comme fraction inhalable et vapeur
Triméthyl-1,2,4 benzène	VLE	25 ppm / 123 mg/m ³
Triméthyl-1,3,5 benzène	VLE	25 ppm / 123 mg/m ³
Cumène	VLE	50 ppm / 245 mg/m ³
Xylène	VLE	100 ppm / 434 mg/m ³

Valeurs limites d'exposition biologique

Indices d'exposition biologique de l'ACGIH

Ingrédients	Valeur	Échantillon
Pesticides inhibiteurs de l'acétylcholinestérase	70 % de la valeur individuelle	Activité de la cholinestérase dans les globules rouges.
Xylène		Irritant pour les yeux et URT; dommages au SNC.

8.2 CONTRÔLE DE L'EXPOSITION
Mesures d'ingénierie :
MESURES DE SÉCURITÉ POUR LES PRÉPOSÉS AU MÉLANGE ET AU CHARGEMENT

Préparations liquides emballées dans des contenants de plus de 10 L. Les préposés au mélange et au chargement doivent utiliser un système fermé de chargement mécanique pour transférer les produits.

Les préposés au mélange et au chargement doivent porter :

- une combinaison de travail par-dessus une chemise à manches longues et un pantalon long ;
- des gants résistants aux produits chimiques ;
- un appareil respiratoire purificateur d'air muni d'un filtre R ou P ; et
- des chaussettes et des chaussures.

Préparations liquides emballées dans des contenants de 10 L et moins. Les préposés au mélange et au chargement doivent utiliser un système fermé de chargement mécanique pour transférer les produits.

Les préposés au mélange et au chargement doivent porter :

- une combinaison de travail par-dessus une chemise à manches longues et un pantalon long ;
- des gants résistants aux produits chimiques ;
- un tablier résistant aux produits chimiques ;
- des chaussures résistantes aux produits chimiques et des chaussettes ; et
- un appareil respiratoire purificateur d'air muni d'un filtre R ou P.

MESURES DE SÉCURITÉ POUR LES PRÉPOSÉS À L'APPLICATION

Ne pas appliquer avec un pulvérisateur manuel à haute pression.

Les préposés à l'application utilisant un pulvérisateur à jet porté dans une cabine close doivent porter :

- une chemise à manches longues et un pantalon long ;
- des chaussettes et des chaussures ; et
- des gants résistants aux produits chimiques lorsqu'ils quittent la cabine pour effectuer du nettoyage ou des réparations (les gants doivent être enlevés et laissés à l'extérieur de la cabine avant d'y pénétrer de nouveau).

Les préposés à l'application utilisant un pulvérisateur à jet porté dans une cabine ouverte doivent porter :

- une chemise à manches longues et un pantalon long ;
- une combinaison de travail résistante aux produits chimiques et une protection de tête ;
- des gants résistants aux produits chimiques ; et
- un appareil respiratoire purificateur d'air muni d'un filtre R ou P.

Les préposés à l'application utilisant un équipement d'application terrestre dans une cabine close doivent porter :

- une chemise à manches longues et un pantalon long ;
- des gants résistants aux produits chimiques lorsqu'ils quittent la cabine pour effectuer du nettoyage ou des réparations (les gants doivent être enlevés et laissés à l'extérieur de la cabine avant d'y pénétrer de nouveau) ; et
- des chaussettes et des chaussures.

Les préposés à l'application utilisant un équipement d'application terrestre dans une cabine ouverte doivent porter :

- une combinaison de travail par-dessus une chemise à manches longues et un pantalon long ;
- des gants résistants aux produits chimiques ; et
- des chaussettes et des chaussures.

Les préposés à l'application utilisant un équipement d'application aérien doivent le faire dans une cabine fermée et porter :

- une chemise à manches longues et un pantalon long ; et
- des chaussettes et des chaussures.

Les préposés à l'application utilisant un pulvérisateur manuel doivent porter :

- une chemise à manches longues et un pantalon long ;
- une combinaison de travail résistante aux produits chimiques et une protection de tête (si la pulvérisation est dirigée vers le haut) ;
- des chaussures résistantes aux produits chimiques et des chaussettes ;
- des gants résistants aux produits chimiques ; et un appareil respiratoire purificateur d'air muni d'un filtre R ou P.

Mesures de protection individuelle :

Protection des yeux et du visage : Le port de lunettes contre les produits chimiques ou de lunettes de protection laminées est recommandé.

Protection de la peau : Chemise à manches longues et pantalon long. Chaussettes et chaussures. Gants résistants aux produits chimiques (sauf pour les pilotes). Tablier résistant aux produits chimiques pendant le mélange ou le chargement, le nettoyage des déversements ou de l'équipement ou toute autre opération exposant les préposés au produit concentré.

Protection respiratoire : En cas de ventilation insuffisante ou de risque d'inhalation des vapeurs ou du brouillard, porter un appareil respiratoire approprié. Porter une protection respiratoire durant les opérations de pulvérisation ou de brumisation. Porter un appareil respiratoire purificateur d'air certifié par le NIOSH muni d'un filtre N, P, R95 ou HE et d'une cartouche pour vapeurs organiques si requis. Porter un appareil de protection respiratoire à adduction d'air si les concentrations d'exposition sont inconnues ou si les appareils respiratoires purificateurs d'air ne procurent pas une protection suffisante.

9. PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

9.1 APPARENCE : Liquide.

ODEUR : Aromatique.

SEUIL OLFACTIF : Aucune donnée disponible.

COULEUR : Rouge.

pH : 4,3

POINT DE FUSION / POINT DE CONGÉLATION : Aucune donnée disponible.

POINT D'ÉBULLITION : 143 °C / 289 °F

POINT D'ÉCLAIR : 41 °C / 106 °F (coupelle fermée).

INFLAMMABILITÉ (solide, gaz) : Aucune donnée disponible.

LIMITES SUPÉRIEURE ET INFÉRIEURE D'INFLAMMABILITÉ OU D'EXPLOSION : Limite supérieure d'explosion : 6 % vol. Limite inférieure d'explosion : 1 % vol.

TENSION DE VAPEUR : Aucune donnée disponible.

SOLUBILITÉ : Soluble.

COEFFICIENT DE PARTAGE, n-OCTANE/EAU : Aucune donnée disponible.

POINT D'AUTO-INFLAMMATION : Aucune donnée disponible.

TEMPÉRATURE DE DÉCOMPOSITION : Aucune donnée disponible.

VISCOSITÉ : 3,2 cPo (ou mPa) @ 20 °C / 68 °F

POIDS SPÉCIFIQUE (EAU = 1) : 1,07 g/mL

MASSE VOLUMÉTRIQUE APPARENTE : 1,07 kg/L

Remarque : Ces données physiques constituent des valeurs typiques basées sur le matériel mis à l'essai, mais peuvent varier d'un échantillon à l'autre. Les valeurs typiques ne doivent pas être interprétées comme étant une analyse garantie d'un lot particulier ou les caractéristiques du produit.

10. STABILITÉ ET RÉACTIVITÉ
10.1 Réactivité

Stable.

10.2 Stabilité chimique

Instable à des températures élevées.

10.3 Possibilité de réactions dangereuses

Ne se polymérisera pas.

10.4 Conditions à éviter

Éviter les températures supérieures à 70 °C (158 °F). Le chlorpyrifos se décompose à des températures élevées. La production de gaz durant la décomposition peut causer des accumulations de pression dans les systèmes clos.

10.5 Substances incompatibles

Oxydants forts. Éviter le contact avec les bases et les acides forts.

10.6 Produits de décomposition dangereux

Durant un incendie, des produits de décomposition peuvent être produits : du chlorure d'hydrogène, des sulfures organiques et du dioxyde de soufre. Une combustion incomplète peut conduire à la formation d'oxydes de carbone et/ou d'autres asphyxiants.

11. RENSEIGNEMENTS TOXICOLOGIQUES
11.1 Voies d'exposition probables

Ingestion. Contact avec les yeux. Absorption cutanée. Contact avec la peau.

CL₅₀ (rat) : Estimé : > 2,00 mg/L (4 h).

Toxicité orale aiguë DL₅₀ (rat) : Estimé : 300 mg/kg

Toxicité cutanée aiguë DL₅₀ (lapin) : >1000 mg/kg

Estimations de toxicité aiguë : Aucune donnée disponible.

Irritation cutanée (lapin) : Peut causer une irritation modérée.

Irritation des yeux (lapin) : Irritation modérée des yeux.

Toxicité spécifique à un organe cible : Peau, système nerveux central, foie, reins.

Aspiration : Le vomissement peut causer une pneumonie par aspiration.

Sensibilisation cutanée (cobaye) : Sensibilisant.

Potentiel carcinogène : ACGIH TLV-A4 (inclassable du point de vue de sa cancérogénicité pour l'humain).

Mutagenicité des cellules germinales : Potentiel minime de toxicité génétique.

Effets interactifs : Aucun connu.

12. RENSEIGNEMENTS ÉCOLOGIQUES

12.1 Écotoxicité

Ce produit est toxique pour les poissons, les invertébrés aquatiques, les petits mammifères et les oiseaux. Les renseignements ci-dessous sont fondés sur la matière active chlorpyrifos.

Données écologiques

Produits	Espèces	Résultats des tests
Chlorpyrifos	Truite arc-en-ciel Daphnia magna	CL ₅₀ – 0,003 mg/L – 96 heures CE ₅₀ – 0,00068 mg/L – 48 heures

La dérive et le ruissellement peuvent avoir des effets indésirables sur les plantes non visées par le traitement.

Ne pas appliquer directement sur aucun plan d'eau.

Ne pas contaminer l'eau lors de l'élimination des eaux de lavage de l'équipement.

Ne pas appliquer quand les conditions météorologiques favorisent la dérive hors de la zone visée par le traitement.

12.2 Persistance et dégradabilité

Biodégradabilité : Inférieure aux niveaux détectables dans des conditions aquatiques aérobiques.

12.3 Potentiel de bioaccumulation

Bioaccumulation : Le potentiel de bioconcentration est modéré (Log Pow FBC entre 3 et 5).

12.4 Mobilité dans le sol

Aucune donnée disponible.

12.5 Autres effets indésirables

Aucune donnée disponible.

13. ÉLIMINATION

13.1 Méthodes de traitement des déchets

Contenants recyclables :

NE PAS réutiliser les contenants à d'autres fins. Ces contenants sont recyclables et doivent être éliminés à un point de collecte des contenants. Communiquer avec son détaillant/distributeur local ou sa municipalité pour connaître l'emplacement du site de collecte le plus proche. Avant d'emporter les contenants au site de collecte :

1. Faire un triple rinçage des contenants vides, ou les rincer avec de l'eau sous pression, en ajoutant les rinçures à la cuve du pulvérisateur.
2. Rendre les contenants rincés impropres à toute nouvelle utilisation.

S'il n'y a pas de site de collecte dans la région, disposer des contenants conformément aux exigences provinciales. Pour des renseignements sur les déversements et le nettoyage des déversements, communiquer avec le fabricant ou l'organisme provincial de réglementation.

Contenants retournables :

NE PAS réutiliser les contenants à d'autres fins. Les contenants vides doivent être retournés au point de vente (distributeur/détaillant) pour élimination. Pour des renseignements sur l'élimination des produits non utilisés ou superflus, communiquer avec le fabricant ou l'organisme provincial de réglementation. Pour des renseignements sur les déversements et le nettoyage des déversements, communiquer avec le fabricant ou l'organisme provincial de réglementation.

Contenants retournables à remplissage multiple :

Les contenants vides doivent être retournés au point de vente (distributeur/détaillant) pour élimination. Ils doivent être remplis de nouveau par le distributeur/détaillant avec le même produit. **NE PAS** réutiliser ces contenants à d'autres fins. Pour des renseignements sur l'élimination des produits non utilisés ou superflus, communiquer avec le fabricant ou l'organisme provincial de réglementation. Pour des renseignements sur les déversements et le nettoyage des déversements, communiquer avec le fabricant ou l'organisme provincial de réglementation.

14. RENSEIGNEMENTS RELATIFS AU TRANSPORT

14.1 Transport terrestre

Description TMD/DOT : UN3017, PESTICIDE ORGANOPHOSPHORÉ, LIQUIDE, TOXIQUE, INFLAMMABLE (CHLORPYRIFOS, NAPHTHA AROMATIQUE), 6.1(3), III POLLUANT MARIN

15. RÉGLEMENTATION
15.1 Réglementation relative à la sécurité, à la santé et à l'environnement

Classement des dangers selon la NFPA et la HMIS:

NFPA				HMIS	
2	Santé	0	Moindre	2	Santé
2	Inflammabilité	1	Légère	2	Inflammabilité
1	Instabilité	2	Modérée	1	Réactivité
		3	Élevée	G	ÉPI
		4	Grave		

Classement des dangers/Signalement SARA

Catégorie de danger SARA III :	Immédiat	<u>0</u>	Feu	<u>0</u>	Relâchement soudain de la pression	<u>N</u>
	Différé	<u>0</u>	Réactif	<u>N</u>		

Quantité à déclarer selon U.S. CERCLA : Chlorpyrifos (CAS : 2921-88-2) 1 lb; Xylène (mélange d'isomères) (CAS : 1330-20-7) 100 lb; Cumène (CAS : 98-82-8) 5000 lb.

SARA, Titre III, section 313 : Triméthyl-1,2,4 benzène (CAS : 95-63-6) 14,4 % ; Xylène (mélange d'isomères) (CAS : 1330-20-7) < 1,5 % maximum ; Cumène (CAS : 98-82-8) 1,9 % maximum.

Inscription au registre RCRA : U239 (Xylène – mélange d'isomères); U055 (Cumène).

Proposition 65 de la Californie : Sans objet.

SIDMUT (Canada) : Les produits antiparasitaires sont exemptés des lois concernant le SIMDUT. Classés dans la catégorie D2B. Comité consultatif sur les pesticides de l'Ontario (CCPO) - rencontre 3

 Lire l'étiquette homologuée, autorisée en vertu de la *Loi sur les produits antiparasitaires*, avant de manipuler ce produit antiparasitaire.

 Ce produit chimique est un produit antiparasitaire homologué par l'Agence de réglementation de la lutte antiparasitaire de Santé Canada et est sujet à diverses exigences d'étiquetage en vertu de la *Loi sur les produits antiparasitaires*. Ces exigences peuvent varier selon les critères de classification et les renseignements sur les dangers potentiels requis pour produire des fiches de données de sécurité uniformes et conformes au SGH. Ci-après, l'élément visuel sur les dangers potentiels devant être affiché sur l'étiquette de ce produit antiparasitaire.


DANGER

POISON

16. AUTRES INFORMATIONS
STATUT DE LA FICHE SIGNALÉTIQUE : Révision du format.

PRÉPARÉ PAR : Service de l'intendance et des affaires réglementaires

RÉVISÉ PAR : Service de santé environnementale et de sécurité

N° D'HOMOLOGATION en vertu de la Loi sur les produits antiparasitaires : 29984

Limitation de responsabilité : Cette fiche signalétique a été rédigée à titre d'information sur les matières constitutives identifiées dans le présent document et ne fait pas référence à l'emploi de celles-ci en combinaison avec tout autre matière ou procédé. Aucune garantie, implicite ou explicite, n'est donnée en ce qui concerne l'exhaustivité ou l'exactitude courante des renseignements contenus dans cette fiche signalétique, et LOVELAND PRODUCTS CANADA, INC. n'assume aucune forme de responsabilité que ce soit découlant de l'usage de ces renseignements. Cette fiche signalétique n'est pas une garantie de sécurité. Les utilisateurs ont la responsabilité de s'assurer qu'ils détiennent tous les renseignements nécessaires pour utiliser de façon sécuritaire le produit décrit dans cette fiche signalétique pour leur usage particulier.