

<b>GROUP</b>	<b>1B</b>	<b>INSECTICIDE</b>
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DYLOX®

80% SOLUBLE POWDER

Insecticide

COMMERCIAL

NET CONTENTS : 1.36 kg

GUARANTEE: Trichlorfon ..... 80%

REGISTRATION NO. 9827 PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN

DANGER ..... POISON

CORROSIVE TO EYES

READ THE LABEL AND BOOKLET BEFORE USING

Bayer CropScience Inc.  
Suite 100, 3131 114th Avenue S.E.  
Calgary, Alberta T2Z 3X2  
1-(888) 283-6847

IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE  
NUMBER, 1-800-334-7577 (24 HOURS A DAY)

Dylox® is a registered trademark of Bayer CropScience.

**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. The user assumes the risk to persons or property that arises from any such use of this product.

## PRECAUTIONS

**DO NOT APPLY DYLOX TO OR ALLOW SPRAY TO DRIFT ONTO VARIETIES OF SORGHUM WHICH ARE SENSITIVE TO PHOSPHATES. TO DO SO MAY CAUSE BURNING OF THE SORGHUM OR MILO.**

Do not use on other crops used for food or forage. Use only according to label directions.

Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse. To protect fish and wildlife, do not contaminate streams, lakes, or ponds.

**DANGER:** Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some people.

Do not get in eyes or on clothing. Avoid breathing dust and avoid contact with skin. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling, and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

Do not contaminate feed or food.

**KEEP OUT OF REACH OF CHILDREN.**

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 [www.cropro.org/](http://www.cropro.org/).

**FIRST AID:** In case of poisoning call a physician or contact a poison control centre **IMMEDIATELY**. Have patient lie down and keep quiet. **IF EYES ARE CONTAMINATED**, wash immediately with flowing water for at least 15 minutes. Consult a physician. **IF SWALLOWED**, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. The patient should be lying down with the head below the foot level and facing down or to one side. Professional medical assistance should be secured immediately. **DO NOT INDUCE VOMITING TO AN UNCONSCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE.** **IF ON SKIN**, remove contaminated clothing and wash skin immediately with soap and warm water. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** The compound inhibits cholinesterase resulting in stimulation of the central nervous system. This results in a sense of "tightness" in the chest, sweating, contracted pupils, stomach pains, vomiting and diarrhea. In case of poisoning, call a physician immediately. The antidote is atropine sulfate administered in large therapeutic doses repeated as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

### DISPOSAL

1. Triple- or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

24-JAN-2007

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#### **DIRECTIONS FOR USE**

DYLOX offers the unique advantage of not significantly affecting beneficial insects (parasites, predators, and pollinators) especially when applied at the minimum recommended rates per hectare. Thus, DYLOX supplements the natural control factors, instead of destroying them. This advantage is lost when DYLOX is used in conjunction with, or alternated with non-selective insecticides.

**MIXING:** DYLOX 80% Soluble Powder dissolves readily in water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To dissolve in water, pour the required amount of DYLOX 80% Soluble Powder into the full amount of water and then agitate. Use immediately after mixing. It is recommended that DYLOX 80% Soluble Powder be used in sprayers equipped with 0.3 mm screens. If 0.15 mm screens are used, some screen clogging may occur.

**DOSAGE:** Use specified dosage of DYLOX 80% Soluble Powder in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

**SPRAYING:** Complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

#### **AERIAL APPLICATION:**

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 rate 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 Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module, developed by CAPCO. 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 has 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. 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 Bayer CropScience at 1-(888) 283-6847 or obtain technical advice from the distributor or your provincial agricultural representative.

**RECOMMENDED APPLICATIONS**

CROP	INSECT	DOSAGE DYLOX 80% SP	REMARKS
<b>FIELD CROPS</b>			
Alfalfa	Alfalfa caterpillar	525 to 700 g/ha	Apply specified dosage per hectare, one application per cutting. Do not apply within 14 days of cutting or grazing
	Alfalfa webworm	350 g to 1.5 kg/ha	
	Beet armyworm, Variegated cutworm	700 g to 1.5 kg/ha	
	Lygus bugs, Stink bugs, Tarnished plant bug	1.5 kg/ha	
Barley, Flax, Oats, Wheat	Armyworm (True), Western yellow-striped armyworm	700 g/ha	Apply specified dosage per hectare, using sufficient water for complete coverage. Repeat as necessary prior to flowering or head emergence Do not apply to flax after flowering. One additional application may be made to barley, oats and wheat after heads emerge from leaf sheath. Do not apply within 21 days of harvest.
	Beet webworm, Variegated cutworm	700 g to 1.5 kg/ha	
	Bertha armyworm	1.5 kg/ha	
Corn (field, sweet, popcorn)	Armyworms, Cutworms	700 g to 1.5 kg/ha	Apply specified dosage per hectare in sufficient water for complete coverage. Three applications may be made per season. For early applications, when plants are 8 to 30 cm high, direct the spray to the lower portions of plants. Later applications may be made as full coverage spray up to day of harvest. See "NOTE" below.
Corn	European corn borer	2.5 kg/ha	Apply specified dosage per hectare in

(Sweet)	(Quebec Only)		sufficient water for complete coverage. Make two foliar applications a week apart in early to mid-July. Applications may be made up to day of harvest. <b>NOTE:</b> Do not make a total of more than 3 applications per season to any one crop.
Canola (rapeseed)	Beet webworm	700 g/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not apply within 21 days of harvest.
	Diamondback moth	1.5 kg/ha	
Sugar Beets	Beet webworm	350 to 700 g/ha	Apply specified dosage per hectare using sufficient water for complete coverage. For webworm control, use lower rate when applied by row crop sprayers and higher rate for low volume or aircraft sprayers. Repeat as necessary. Do not apply within 14 days of harvest. Tops harvested less than 28 days after treatment should not be fed to livestock.
	Dipterous leaf miners, Variegated cutworm	700 g to 1.5 kg/ha	
	Alfalfa webworm, Beet armyworm	1.5 to 2.25 kg/ha	
Tobacco	Hornworms, Tarnished plant bug	1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not treat within 3 days of harvest.
	Darksided cutworms, Red-backed cutworms	SEE REMARKS	GREENHOUSE: Mix 45 g product in 15 L of water and apply once as a spot treatment to 100 m <sup>2</sup> of seeded area in the late afternoon or evening after the last daily watering. Apply to foliage at the first sign of damage.
		2.75 to 4 kg/ha	FIELD GROWN: Apply specified dosage per hectare in 400 L of water for complete coverage. Apply once after transplanting when cutworm problems develop. Apply to the foliage in the late afternoon or evening. Do not use within 60 days of harvest.
<b>FRUIT</b>			
Blueberries	Flea beetle larvae, Blueberry sawfly, Blueberry case beetle, Currant spanworm,	1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Do not make more than 2 applications 30 days apart per

	White-marked tussock moth		season. Do not apply within 30 days of harvest.
<b>VEGETABLE CROPS</b>			
Beans (dry, Lima and snap)	Armyworms, Imported cabbageworm, Dipterous leaf miners, Lygus bugs, Mexican bean beetle, Stink bug, Variegated cutworm	1.5 to 2.25 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not apply within 14 days of harvest for snap or dry beans. Do not apply to Lima beans after pod set.
Brussels Sprouts, Cabbage, Cauliflower	Imported cabbageworm, Variegated cutworm	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not apply within 21 days of harvest.
	Diamondback moth	1.5 kg/ha	
Carrots, Rutabagas, Salsify, Turnips	Dipterous leaf miners, Imported cabbageworm, Variegated cutworm	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not apply within 28 days of harvest. Do not eat tops.
	Diamondback moth	1.5 kg/ha	
	Beet armyworm	1.5 to 2.25 kg/ha	
	Salt-marsh caterpillar	2.25 kg/ha	
Collards, Kale, Lettuce, Spinach	Beet webworm, Dipterous leaf miners, Thrips, Variegated cutworm	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water to give thorough plant coverage. Repeat as necessary until heads begin to form. Do not apply with 28 days of harvest.
	Armyworms	1.5 to 2.25 kg/ha	
	Salt-marsh caterpillar	2.25 kg/ha	
Peppers	Dipterous leaf miners	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary but not within 21 days of harvest.
	Pepper maggots	1.5 kg/ha	
Table beets	Beet webworm, Dipterous leaf miners, Variegated cutworm	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary. Do not apply within 28 days of harvest. Do not eat tops of table beets.
	Alfalfa webworm	1.5 kg/ha	
	Beet armyworm	1.5 to 2.25 kg/ha	
	Salt-marsh caterpillar	2.25 kg/ha	
Tomatoes	Dipterous leaf miners	700 g to 1.5 kg/ha	Apply specified dosage per hectare using sufficient water for complete coverage. Repeat as necessary but not within 21 days of harvest.
<b>ORNAMENTALS</b>			



Flowers, Shrubs, Trees	Armyworms, Bagworms, Boxelder bug, Cutworms, Leaf miners, Lygus bugs, Stink bugs, Tarnished plant bug, Webworms	1.5 to 2.25 kg/ha	Apply specified dosage in up to 1000 L of water per hectare and spray until plants are thoroughly wet. For smaller areas, apply 15 to 20 g DYLOX 80% SP in up to 8 L/100m <sup>2</sup> . Repeat as necessary. CAUTION: Phytotoxicity has occurred on certain varieties of carnation, zinnia, begonia, salvia and cineraria. When plantings of these flowers are to be sprayed for the first time, treat only a few plants and observe for 5 to 7 days before spraying the entire planting. DO NOT USE on Swedler, Crimson King and Norway maples, since injury may occur.
Narcissus	Narcissus bulb fly	SEE REMARKS	Apply 175 g product in 120 L of water as a drench per 100 m of row. Direct stream to base of plants at beginning of adult fly activity (early May to June). Repeat treatments annually.

#### WOODLANDS

Balsam Fir and spruce trees in farm woodlots, rights-of-way, Christmas tree plantations and municipal parks* (*National and Provincial parks not included)	Spruce budworm larvae	See Remarks	Before using this product, consult your local Canadian Forestry Service office or provincial forestry authority for information on timing, method of application, and concentration of spray mixtures. Quantities used will depend upon the size of the trees and the severity of the infestation. Repeat applications as necessary to prevent feeding damage. <u>Dilute sprays</u> (hydraulic sprayers): Apply 1.5 to 2.25 kg DYLOX 80% SP in up to 1250 L of water per hectare. Spray trees until they are thoroughly wet. <u>Concentrated sprays</u> (mist blowers): Add 375 to 550 g DYLOX 80% SP to 50 L of water and apply up to 200 L of this spray solution per hectare. Spray until foliage is moist.
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#### FLY CONTROL

For fly control in and around farm buildings and dairy barns: Mix 1.56 kg of DYLOX 80% Soluble Powder in 100 L of water (16 g/L). Thoroughly wet all areas to be treated by spraying 10 L/100m<sup>2</sup> of surface area or to the point of run-off. Apply to floors, walls, ceilings, around windows, doors, and other areas where flies congregate. Also spray stock pens (after removal of animals), garbage areas, and other locations where refuse has collected. Repeat applications every 1 to 2 weeks or as fly populations increase. For longer residual control, add 120 g of sugar to each Litre of solution.

<p>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. The user assumes the risk to persons or property that arises from any such use of this product.</p>			
<p><b>RESTRICTED USES</b></p>			
<p>NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits that may be required.</p>			
<p><b>RECOMMENDED APPLICATIONS</b></p>			
CROP	INSECT	DOSAGE DYLOX 80% SP	REMARKS
Balsam Fir and spruce trees in farm woodlots, rights-of-way, Christmas tree plantations, and municipal parks* (*National and provincial parks not included)	Spruce budworm larvae	See Remarks	AIRCRAFT: Apply 1.5 to 2.25 kg DYLOX 80% SP per hectare using 2 L of water for complete coverage.

RATE/HECTARE OF DYLOX 80% SP	AMOUNT OF DYLOX 80% SP TO TREAT:		
	2 hectares	4 hectares	6 hectares
350 g	700 g	1.4 kg	2.1 kg
525 g	1.05 kg	2.1 kg	3.15 kg
700 g	1.4 kg	2.8 kg	4.2 kg
1.5 kg	3 kg	6 kg	9 kg
2.25 kg	4.5 kg	9 kg	13.5 kg

NOTE: When using a more convenient whole number or fraction of kilograms of formulated material, do not exceed maximum registered rate.

**PRECAUTIONS**

**DO NOT APPLY DYLOX TO OR ALLOW SPRAY TO DRIFT ONTO VARIETIES OF SORGHUM WHICH ARE SENSITIVE TO PHOSPHATES. TO DO SO MAY CAUSE BURNING OF THE SORGHUM OR MILO.**

Do not use on other crops used for food or forage. Use only according to label directions.

Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse. To protect fish and wildlife, do not contaminate streams, lakes, or ponds. Do not apply directly to animals. Remove animals before spraying barn. Do not treat portions of buildings where poultry feed or which animals can lick. Direct application to walls, floors, or other surfaces previously treated with lime, whitewash, or other alkaline materials may be ineffective. Do not contaminate feed, water, or milk-handling equipment.

**DANGER.** Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some people. Do not get in eyes or on clothing. Avoid breathing dust and avoid contact with skin. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling, and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

Do not contaminate feed or food.

**KEEP OUT OF REACH OF CHILDREN.**

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 [www.cropro.org/](http://www.cropro.org/).

#### **FIRST AID:**

In case of poisoning call a physician or poison control centre **IMMEDIATELY**. Have patient lie down and keep quiet. **IF EYES ARE CONTAMINATED**, wash immediately with flowing water for at least 15 minutes. Consult a physician. **IF SWALLOWED**, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. The patient should be lying down with the head below the foot level and facing down or to one side. Professional medical assistance should be secured immediately. **DO NOT INDUCE VOMITING TO AN UNCONSCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE.** **IF ON SKIN**, remove contaminated clothing and wash skin immediately with soap and warm water. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION:**

The compound inhibits cholinesterase resulting in stimulation of the central nervous system. This results in a sense of "tightness" in the chest, sweating, contracted pupils, stomach pains, vomiting and diarrhea. In case of poisoning, call a physician immediately. The antidote is atropine sulfate administered in large therapeutic doses repeated as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

## RESISTANCE MANAGEMENT

For resistance management, please note that Dylox 80% SP contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Dylox 80% SP and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides is 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 Dylox 80% SP or other Group 1B insecticides with different groups that control the same pests in a field.
- Insecticide 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 Bayer CropScience representative, 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 Bayer CropScience via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or call 1-888-283-6847.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

### DISPOSAL

1. Triple- or pressure rinse the empty container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

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