

Cylam 50 EC

Reg. No./Nr L8261, Act No./Wet Nr. 36 of/van 1947
Botswana Reg. No./Nr W130557, Act No./Wet Nr.18 of/van 1999
Malawi Reg. No./Nr. MW/PCB/2011/0362
Namibian Reg. No./Namibiese Reg. Nr. N-AR1252

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

An emulsifiable concentrate contact and stomach insecticide for the control of various insects as recommended.

'n Emulgeerbare konsentraat kontak- en maaginsekdoder vir die beheer van verskillende insekte soos aanbeveel.

GROUP/GROEP	3	INSECTICIDE / INSEKDODER
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ACTIVE INGREDIENT:

Lambda-cyhalothrin (pyrethroid) 50 g/ℓ Lambda-sihalotrin (piretroïed)

Net Volume



ℓ

Netto Volume

GHS Hazard Statements

Flammable liquid and vapour.
Harmful if swallowed and in contact with skin.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
Fatal if inhaled.
May cause genetic defects.
May cause cancer.
Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements

Keep away from heat, hot surfaces, open flames and other ignition sources.
Do not breathe mist, vapours or spray.



REGISTRATION HOLDER / REGISTRASIEHOUER:

Nulandis® (A division of AECI Limited/ Nulandis® ('n Afdeling van AECI Beperk)

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

www.aeciph.com / www.aeciworld.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ;
0861 555777 / 082 446 8946

Batch No:

Lotnommer:

DATE OF MANUFACTURE:

VERVAARDIGINGSDATUM:

UN No. / VN Nr. 3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE FLASH POINT 23 °C OR MORE

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ALLOW THE FOLLOWING NUMBER OF DAYS BETWEEN THE LAST APPLICATION AND HARVEST OR GRAZING.

Apricots, nectarines, plums and table peaches	14 days
Sorghum, wheat and soybeans [grazing]	28 days
Dry beans, maize and sweetcorn	7 days
Green beans	1 day
Potatoes, onions and canning peaches	3 days
Lupins [grazing]	2 days
Lucerne [grazing]	8 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits (MRL's), but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, Maximum Residue Limits and recommended withholding periods.

Handle concentrate with extreme care.

At rates as high as 300 ml / ha applied according to label recommendation, **Cylam 50 EC** is of very low risk to bees. If higher use rates are necessary, apply during periods when bees are not active.

Store under lock and key in a cool, dry place away from food and feed.

Keep out of reach of children, uninformed persons and animals.

Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing. In case of poisoning contact a doctor and make this label available to him.

Aerial Application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

ALTHOUGH THIS REMEDY HAS BEEN EXTENSIVELY TESTED UNDER A LARGE VARIETY OF CONDITIONS, THE REGISTRATION HOLDER DOES NOT WARRANT THAT IT WILL BE EFFICACIOUS UNDER ALL CONDITIONS, BECAUSE THE ACTION AND EFFECT THEREOF MAY BE AFFECTED BY FACTORS SUCH AS ABNORMAL SOIL, CLIMATIC AND STORAGE CONDITIONS, QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE PEST TO THE REMEDY CONCERNED AS WELL AS BY THE METHOD, TIME AND ACCURACY OF APPLICATION. THE REGISTRATION HOLDER FURTHERMORE DOES NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO CROPS, VEGETATION, THE ENVIRONMENT OR HARM TO MAN OR ANIMAL OR FOR LACK OF PERFORMANCE OF THE REMEDY CONCERNED DUE TO FAILURE OF THE USER TO FOLLOW THE LABEL INSTRUCTIONS OR TO THE OCCURRENCE OF CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THE REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

PRECAUTIONS:

GHS Precautionary Statements

Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking.

Do not breathe mist, vapours or spray.

Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection & face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

In case of accidental skin contact, wash affected area immediately with soap and water.

Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.

Prevent contamination of food, feed, drinking water and eating utensils.

Prevent spray drift onto other crops, grazing, rivers, dams and other areas not under treatment.

Clean applicator thoroughly before re-using and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.

Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	Concentration % by weight	Classification
		EC1272/2008
Light aromatic petroleum	70-80%	Flammable liquid (Category 3) H226. Aspiration toxicity (Category 1) H304. Mutagenicity (Category 1B) H340. Carcinogenicity (Category 1B) H350.
Isotridecanoethoxylate	1-10%	Acute oral (Category 4) H302. Serious eye damage (Category 1) H318. Aquatic acute 2 H401.
Calcium dodecylbenzene sulphonate	1-10%	Skin irritant (Category 2) H315. Serious eye damage (Category 1) H318.
Isobutanol	1-10%	Flammable liquid (Category 3) H226, STOT SE H335+H336. Skin irritant (Category 2) H315. Serious eye damage (Category 1) H318.
Lambda cyhalothrin	1-10%	Acute toxicity oral (Category 3) H301. Acute toxicity dermal (Category 4) H311. Acute toxicity inhalation (Category 2) H330. Aquatic acute (Category 1) H400. Aquatic chronic (Category 1) H410. M=10000

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **Cylam 50 EC** and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

NOTE TO PHYSICIAN:

Treatment should be symptomatic and supportive. If gastric lavage or emesis is considered necessary, then inhalation of gastric content must be prevented. Consider the application of medical charcoal and a laxative.

RESISTANCE WARNING:

For resistance management, **Cylam 50 EC** is a Group code 3 insecticide. Any insect population may contain individuals naturally resistant to **Cylam 50 EC** and other Group code 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **Cylam 50 EC** or other Group code 3 insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes. Refer to applicable individual product labels.
- Integrate other control methods (chemical, cultural, biological) into insect control programmes.

Resistance of American bollworm (*Helicoverpa armigera*) to synthetic pyrethroids has been confirmed. DO NOT apply more than two applications per growing season. If a pyrethroid gives poor performance DO NOT re-spray with any synthetic pyrethroid, even at a corrective dosage rate. Use a product from a different chemical group.

For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION:

Cyhalothrin acts on the nervous system of insects, and disturbs the function of neuron by interaction with the sodium channel.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Compatibility:

Do not mix with seaweed extract, amitraz or prothiophos. The compatibility of **Cylam 50 EC** with other products may be influenced by the formulation of the products involved as well as by the quality of the water. Since the formulation of other products may change and water quality may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

Mixing instructions:

- Half fill the spray tank with clean water.
- Add the measured amount of **Cylam 50 EC** to the tank while agitating.
- Fill the tank to the required volume and maintain agitation until spraying is completed.

NOTE: Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

Ground application:

When using a conventional high volume sprayer or a mist blower, fit equipment with hollow cone nozzles that give medium to fine droplets. Ensure that sprayers are calibrated before spraying and that thorough coverage is obtained. A uniform distribution must be ensured throughout the target area. The use of drop arms on conventional booms is recommended when spraying crops such as tomatoes. Do not spray plants wet with dew or rain.

Aerial application:

Aerial application may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:

Equipment:

Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product through drift.

The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.

All nozzles / atomisers should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application parameters:

A minimum volume of 30 l spray mixture per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.

A droplet coverage of 30-40 droplets per cm² must be recovered at the target.

A droplet spectrum with a VMD of 250 - 280 microns is recommended. Ensure that the production of fine droplets (smaller than 150 microns) is restricted to a minimum.

The height of the spray boom should be maintained at 3-4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

- Apply before the crop becomes too dense, thus preventing proper coverage of the plants.

Meteorological conditions:

The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.

Do not spray under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.

Do not spray under temperature inversion conditions (spraying in or above the inversion layer).

Do not spray if the wind speed exceeds 15 km/h.

- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.

General:

Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met.

APPLICATION RATES:

CROP / PEST	DOSAGE	REMARKS
ALL CROPS Cutworms (<i>Agrotis</i> spp.)		Apply Cylam 50 EC only when plants are in the seedling stage or before crop emergence. Do not apply when the soil is dry. Apply Cylam 50 EC as a preventive (pre-emergence) or corrective (post-emergence) application as follows: The soil to be treated must be well prepared - free of clods and excessive plant debris. In situations where reduced tillage is practiced, cutworm populations are usually high. Therefore, the cutworm population must be monitored after the first application and when necessary a second application should be applied. Apply as an overall, corrective spray at the recommended rate. Apply ONLY if the top 3 cm of the soil is moist.
	0,23 ml / 100 m row 70 ml / ha	Ground application: Row treatment: Apply in at least 3 l water in a 30 cm wide band over the row. Overall application: Apply in 300 l water / ha.
	70 ml / ha	Aerial application: Apply in 30 l water / ha.
GROUNDNUTS, DRY BEANS, GREEN BEANS, LUCERNE, MAIZE & SWEETCORN American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	100 ml / ha	Ground application: Apply in 250 - 500 l water / ha depending on plant size. Scout field at 7 day intervals from time of flowering and commence spraying when infestation is noticed. For optimum control larvae should be sprayed when they are not bigger than 1 cm but definitely before they exceed 2 cm in length. Scout field every 7 days or 3 days after rain and repeat application if necessary.
	100 ml / ha	Aerial application: (groundnuts, dry beans and green beans ONLY) Apply in 30 l water / ha.
	Refer to “RESISTANCE WARNING”, above.	

LUPINS American bollworm (<i>Helicoverpa armigera</i>)	110 - 120 ml / ha	Ground application: Apply in not less than 300 l water / ha. Application should be done at a count of 1 - 2 larvae / m ² before pods are penetrated by the larvae. Apply lower dosage rate to young plants and higher rate to strongly growing plants.
	120 ml / ha	Aerial application: Apply in 30 l water / ha.
MAIZE Stalk borer (<i>Busseola fusca</i> - first and second generation) (<i>Chilo partellus</i> - first and second generation)	1,2 ml / 100 m row (120 ml / ha)	Ground application: Apply as soon as eggs are found on 5 % of the plants or 10 % of the plants show damage. A second application may be required 10 - 14 days later for stalk borer control and before tasseling for <i>Chilo partellus</i> control. Apply directly into plant funnel in at least 3 l water / 100 m row.
	120 ml / ha	Aerial application: Apply as above in 30 l water / ha.
ONIONS Thrips (<i>Thrips tabaci</i>)	80 - 120 ml / ha	Apply in a spray programme of 10 - 14 days at the first signs of damage on onion leaves. Use the lower dosage rate when thrips counts reach 0,6 thrips per plant and follow up with the higher dosage rate 10 - 14 days later.
	Do not apply to spring onions.	
PLUMS, NECTARINES, PEACHES & APRICOTS American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	10 ml / 100 l water (250 - 350 ml / ha)	Apply at the first sign of infestation and repeat if necessary. Do not apply before 75 % petal drop.
POTATOES Potato tuber moth (larvae) (<i>Phthorimaea operculella</i>) & American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	120 ml / ha	Ground application: Apply in 250 - 500 l water / ha depending on plant size. Commence spraying when plants are one month old or earlier if an infestation should occur. Repeat every 10 - 14 days and ridge at least twice during the growing season.
	132 ml / ha	Aerial application: Apply in at least 30 l water / ha. Commence spraying as soon as plants are one month old or earlier if an infestation should occur. Repeat application every 10 - 14 days and ridge at least twice during the growing season.
SORGHUM Maize stalk borer (<i>Busseola fusca</i>)	1 ml / 100 m row	Ground application: Apply in 3 l water in the funnel stage when 5 % of the plants show shot hole damage and borers have not yet migrated into the stalks. Direct application into funnel. Will also control <i>Chilo partellus</i> if present at time of application.

	100 ml / ha	Aerial application: Apply in 30 l water / ha.
American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	100 ml / ha	Spray as soon as an infestation is noticed and repeat if necessary. Ground application: Ensure thorough wetting. Apply in 250 – 500 l water / ha. Aerial application: Apply in at least 30 l water / ha.
SOYBEANS American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	120 ml / ha	Ground application: Apply as soon as infestation is noticed and repeat when necessary. Apply in 200 - 300 l water / ha and ensure good coverage of the plants.
	120 ml / ha	Aerial application: Apply in at least 30 l water / ha.
SWEETCORN Pink stalk borer (<i>Sesamia calamistis</i>)	1 ml / 100 m row	Ground application: Apply directly into the funnel of the plants 14 days after emergence of the plants. A follow-up application 10 - 14 days later must be applied and if necessary up to flowering to control re-infestations. A minimum of 3 l spray mixture / 100 m row must be applied.
WHEAT American bollworm (<i>Helicoverpa armigera</i>)	Refer to “RESISTANCE WARNING”, above.	
	120 ml / ha	Spray as soon as an infestation is noticed and repeat if necessary. Ground application: Ensure thorough wetting. Apply in 250 - 500 l water / ha. Aerial application: Apply in at least 30 l water / ha.