

XTERMINATOR™

READ THE ATTACHED PACKAGED LEAFLET BEFORE USE • KEEP OUT OF REACH OF CHILDREN AND ANIMALS

ACT / WET 36/1947 REG. No ZAR L7037

CONTACT INSECTICIDE

A suspension concentrate contact and stomach insecticide for the control of biting and stinging insects on crops as listed.



GROUP

3

INSECTICIDE

HAZARD STATEMENTS:

- May be fatal if swallowed and enters airways
- Causes skin irritation
- May cause an allergic skin reaction
- Toxic to aquatic life with long-lasting effects



PRECAUTIONARY STATEMENTS:

- Wash hands thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Wear protective gloves/protective clothing/eye protection/face protection
- Use personal protective equipment as required

ACTIVE INGREDIENTS

Natural Pyrethrins

7,5 g/ℓ

REGISTRATION HOLDER:

Agro Organics (Pty) Ltd.

REG. No 2000/005499/07

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GRIFFON POISON INFO CENTRE +27 82 446 8946

SEE CONTAINER FOR:

NETMASS/BATCHNO./MANUFACTURINGDATE



WARNINGS

- MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- CAUSES SKIN IRRITATION
- MAY CAUSE AN ALLERGIC SKIN REACTION
- TOXIC TO AQUATIC LIFE WITH LONG-LASTING EFFECTS
- DO NOT USE MORE THAN 3 TIMES IN A ROW NOR 10 TIMES A YEAR ON SAME LOCATION

PRE-HARVEST INTERVAL (PHI)

- Berries: 0 days
- Brassica: 2 days
- Cucurbits: 0 days
- Cereals: 0 days
- Citrus: 0 days
- Grapes: 0 days
- Guavas: 0 days
- Leafy vegetables: 2 days
- Olives: 2 days
- Pomefruit: 0 days
- Stonefruit: 0 days
- Tomatoes: 0 days

DISCLAIMER: 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 climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label as well as by the method, time and accuracy of the 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 OR REGISTRATION HOLDER IN THE EVENT OF ANY UNCERTAINTY

PRECAUTIONS

- KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE MATERIALS.
- WASH HANDS THOROUGHLY AFTER HANDLING.
- DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
- USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
- AVOID RELEASE TO THE ENVIRONMENT.
- WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
- USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.
- IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.
- IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.
- IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED
- CLOTHING. RINSE SKIN WITH WATER [OR SHOWER
- - Clean applicator after use and dispose of water where it will not contaminate rivers, dams, grazing, and crops
- - Empty all pesticides from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds
- - Triple rinse statement:
 - o Fill with one-quarter of clean water
 - o Shake for 30 seconds
 - o Decant into spray tank for 30 seconds
- - NEVER USE THE CONTAINER FOR ANY OTHER PURPOSE. Puncture the rinsed container to render it useless and send it to a CropLife SA-approved recycler. PET containers cannot be recycled and must be incinerated after cleaning

RELEVANT SUBSTANCES

- Sweet orange oil > 30 %; Pyrethrum > 1 %; Potassium hydroxide < 1 %.

FIRST AID

- Most important symptoms and effects, both acute and delayed:
- Inhalation: May cause respiratory irritation
- Ingestion: May be harmful if swallowed
- Skin Contact: Causes skin irritation
- Eye Contact: May cause eye irritation
- In case of inhalation:
 - Remove person into fresh air, if not breathing, give artificial respiration. Seek medical attention if you feel unwell.
 - In case of skin contact
- Wash off with soap and plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.
- In case of eye contact
 - Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing. Seek medical attention if irritation occurs.
 - In case of ingestion
 - Seek medical attention. Do NOT induce vomiting unless directed to do so by a doctor. Never give anything by mouth to an unconscious person. Seek medical attention if you feel unwell.

RESISTANCE WARNING STATEMENT

- Avoid exclusive, repeated use of insecticides from the same insecticide group code (Xterminator belongs to group code 3A). Alternate with products from different insecticide group codes.
- Integrate control methods (cultural and biological) into insect control programs. Consult the distributor in the event of any uncertainty or contact **ORO AGRI SA** on resistance management.

MODE OF ACTION

- Pyrethrum has a narcotic action on insects. **Xterminator™** is formulated to allow the insect to recover from narcosis to allow the insect to emerge from cover when the d-limonene action will inflict death. (Chinch bug application – post-harvest). Xterminator is formulated to minimize damage to beneficial insects and by application intervals of more than 5 days, many will recuperate.

DIRECTIONS FOR USE

- USE ONLY AS DIRECTED

COMPATABILITY

- **This product may not be mixed with other agrochemicals**

MIXING INSTRUCTIONS

- **SHAKE CONTAINER THOROUGHLY** before adding to spray tank
- Use clean water with pH 6-7. Stir the water in the spray tank when Xterminator is added and agitate during application. Use the mixture on the same day

COMMODITY AND PEST

BERRIES

(BLUEBERRIES, BLACKBERRIES, CRANBERRIES, DEWBERRIES (INCLUDING BOYSENBERRY AND LOGANBERRY), GOOSEBERRIES, RASPBERRIES, BLACKCURRANTS, CURRANTS)

APPLICATION RATE

APHIDS (APHIS GOSSYPHII, CHAETOSIPHON FRAGAEOFOLII, MYZUS PERSICAE), THRIPS (FRANKLINIELLA OCCIDENTALIS), SPOTTED MAIZE BEETLE (ASTYLUS ATROMACULATUS) GOOSEBERRY BEETLE (LEMA DATURAPHILA), SNOUTBEETLES AND WEEVILS (EREMNUS ATRATUS, E.HORTICOLA, E.SETULOSUS, PHLICTINUS CALLOSUS, SCIOBIUS TOTTUS) AND FLIES

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

BRASSICA

(BRUSSELS SPROUTS, BROCCOLI, CABBAGE (INCLUDING ALL VARIETIES), CAULIFLOWER, COLLARDS, KALE, KOHLRABI, PAKCHOI)

APPLICATION RATE

BAGRADA BUG (BAGRADA HILARIS), GREEN VEGETABLE BUG (NEZARA VIRIDULA), APHIDS (BREVICORYNE BRASSICAE, LIPAPHIS PSEUDOBRASSICAE, MYZUS PERSICAE), CABBAGE FLEA BEETLE (PHYLLOTRETA CAPICOLA, P.MASHONANA) POTATO SNOUT BEETLE (SCIOBIUS HORNI) AND FLIES

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 2 days

CUCURBITS

(BUTTERNUTS, CANTALoupES, CUCUMBERS, GHERKINS, GOURDS, MELONS, MUSK MELONS, PATTY PANS, PUMPKINS, SQUASHES [INCLUDING SUMMER AND WINTER SQUASHES], WATERMELON, ZUCCHINI)

APPLICATION RATE

APHIDS (APHIS FABAE, A. GOSSYPHII, MACROSIPHUM EUPHORBIAE, MYZUS PERSICAE), THRIPS (FRANKLINIELLA OCCIDENTALIS, THRIPS TABACI), LADYBIRD BEETLES (HENOSEPILOCHNA BIFASCIATA, H.HIRTA), LEAF BEETLES (ASBECESTA CYANIPENNIS, DIACANTH FENESTRATA, LEPTALUCA FISSICOLLIS, PROSMIDIA CONIFERA, SONCHIA STERNALIS) AND FLIES

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

CEREAL

CEREAL GRAINS (BARLEY, OATS, RYE, WHEAT)

APPLICATION RATE

CHINCH BUG (MACCHIADEMUS DIPLOPTERUS, NYSIUS NATALENSIS), BAGRADA BUG (BAGRADA HILARIS) MAIZE LEAFHOPPER (CICADULINA MBILA), APHIDS (DIURAPHIS NOXIA, METOPOLOPHIUM DIRHODUM, RHOPALOSIPHUM PADI, R.MAIDIS, SCHIZAPHIS GRAMINUM, SITOBION AVENAE), AND FLIES

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

CITRUS

(GRAPEFRUITS OR POMELOS, LIMES, MANDARINS [INCLUDING CLEMENTINES, NAARTJIES, SATSUMAS AND TANGERINES], ORANGES AND TANGELOS)

APPLICATION RATE

LEAFHOPPER (EMPOASCA DISTINGUENDA, EPIGNOMA NATALENSIS), SHIELD BUGS (ANTESTIOPSIS, NEZARA VIRIDULA), WHITE FLIES (ALEUROCANTHUS SPINIFERUS, A.ZIZYPHI, A.WOGLUMI, ALEUROTHRIXUS FLOCCOSUS), APHIDS (APHIS GOSSYPHII, A.SPIRAECOLA, TOXOPTERA AURANTII), MEALY BUGS (DELOTTOCOCCUS ABERIAE, FERRISIA VIRGATA, NIPAEOCOCCUS VIRIDIS, PARACOCCUS BURNERAE, P.CITRI, PSEUDOCOCCUS CALCEOLARIAE, P.LONGISIPINUS), THRIPS (HELIOTHRIPS HAEMORRHODIALIS, SCIRTOTHRIPS AURANTI), BLUE-GREEN CITRUS NIBBLER (COLASPOSOMA FULGIDUM), FULLER'S ROSE BEETLE (PANTOMORUS CERVINUS) AND FLIES.

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

POST HARVEST

CHINCH BUG (MACCHIADEMUS [BLISSUS] DIPLOPTERUS)

500 mℓ per 100ℓ water

Submerge for 120 seconds
PHI: 0 days

GRAPES

KROMPOKKEL (PLANGIA GRAMINEA), GRAPEVINE LEAFHOPPER (ACIA LINEATIFRONS, MGENIA FUSCOVARIA), MEALYBUGS (PLANOCOCCUS FICUS, HELIOTHRIPS SYLVANUS), BEETLES (EREMNUS ATRATUS, E.CEREALIS, E.CHEVROLATI, E.SETULOSUS, NAUPACTUS LEUCOLOMA, PHYLCTINUS CALLOSUS, SCIOBIUS TOTTUS, TANYRHYNCHUS CARINATUS), CHINCH BUG (MACCHIADEMUS [BLISSUS] DIPLOPTERUS) AND FLIES

APPLICATION RATE

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

GUAVAS

COCONUT BUG (PSEUDOTHERAPTUS WAYI), MEALYBUGS (PLANOCOCCUS CITRI), COMMON FRUIT CHAFER (PACHNODA SINUATA) AND FLIES

APPLICATION RATE

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

LEAFY VEGETABLES

ENDIVE, BEET, LETTUCE, SPINACH, SWISS CHARD

ENDIVE AND LETTUCE: APHIDS (APHIS FABAE, MYZUS PERSICAE, NASONOVIA)
BEET, SPINACH, SWISS CHARD: APHIDS (APHIS FABAE, MACROSIPHUM EUPHORBIAE, MYZUS PERSICAE), POTATO LADYBIRD (EPILACHNA DREGEI);
BLUE-GREEN CITRUS NIBBLER (COLASPOSOMA FULGIDUM), SPINACH WEEVIL (GASTEROCLISUS AURICILLIATUS), POTATO LEAFMINER FLY (LIRIOMYZA HUIDOBRENSIS) AND FLIES

APPLICATION RATE

500 mℓ per 100ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 2 days

OLIVES

OLIVE LACE BUG (PLEROCHILA AUSTRALIS), AFRICAN OLIVE PSYLLA (EUPHYLLURA LONGICILIATA), SOMBRE TWIG PRUNER (CLONIOCERUS KRAUSII), OLIVE FLEA BEETLE (ARGOPISTES CAPENSIS, A.OLEAE, A.SEXYVITTATUS) AND FLIES

APPLICATION RATE

500 mℓ per 100 ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 2 days

POME FRUITS

APPLE, PEARS, QUINCES

APHIDS (APHIS SPIRAECOLA, A. GOSSYPII, EROSIMA LANIGERUM, MACROSIPHUM ROSAE, MYZUS PERSICAE), MEALYBUGS (PSEUDOCOCCUS CALCEOLARIAE, P.LOGISPINUS, P.VIBURNI), THRIPS (FRANKLINIELLA OCCIDENTALIS), FRUIT NIBBLER (ODONTIONOPA SERICAE), SNOUT BEETLES AND WEEVILS (EREMNUS ATRATUS, E.CERIALIS, E.SETULOSUS, PANTOMORUS CERVINUS, PHLICTINUS CALLOSUS, SCIOBIUS TOTTUS), CHINCH BUG (MACCHIADEMUS [BLISSUS] DIPLOPTERUS) AND FLIES.

APPLICATION RATE

500 mℓ per 100 ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

STONE FRUITS

CHERRIES, PLUMS, APRICOTS, PEACHES, NECTARINES, PRUNES

APHIDS (ERIOSOMA PYRICOLA), MEALYBUGS (PSEUDOCOCCUS CALCEOLARIAE, P.LOGISPINUS, P.VIBURNI), FRUIT NIBBLER (ODONTIONOPA SERICAE), SNOUT BEETLES AND WEEVILS (EREMNUS SETULOSUS, PHLICTINUS CALLOSUS), CHINCH BUG (MACCHIADEMUS [BLISSUS] DIPLOPTERUS) AND FLIES.

APPLICATION RATE

500 mℓ per 100 ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

TOMATOES

LARGE BLACK TIP WILT (ANOPLOCNEMIS CURVIPES, ELASMOPODA VALGA), MILKWEED BUG (SPILOSTHETHUS PANDURUS), GREEN VEGETABLE BUG (NEZARA VIRIDULA), WHITEFLIES (BEMISIA TABACI, TRIALEURODES VAPORARIUM), APHIDS (APHIS FABAE, MACROSIPHUM EUPHORBIAE, MYZUS PERSICAE), THRIPS (FRANKLINIELLA OCCIDENTALIS, F.SCHULTZEI, THRIPS TABACI), FRUIT AND FLOWER CHAFERS (DISCHISTA CINCTA, PACHNODA SINUATA, PEDINORRHINA TRIVITTATA, PEDINORRHINA HEBREAE, TEPHRAEA DICHROA, T.LEUCOMELONA), POTATO LADYBIRD (EPILACHNA DREGEI), SOLANUM LADYBIRD (HENOSEPIACHNA HIRTA), BRINJAL TORTOISE BEETLE (CONCHYLOTENIA HYBRIDA, C.TRIPUNCTICOLLIS) AND FLIES

APPLICATION RATE

500 mℓ per 100 ℓ water

Foliar short of run-off
Target insect wetting
Not more than three 5-day intervals
PHI: 0 days

OAK TREES

APHIDS

APPLICATION RATE

500 mℓ per 100 ℓ water

Foliar short of run-off