

syngenta.

Reg. No. **L6837** Act No. 36 of 1947 **N-AR 1422** (Namibia) **W130596** (Botswana)

A flowable concentrate systemic fungicide as a seed treatment for the control of downy mildew, black shank and damping-off diseases in the crops as indicated.

GROUP 4 SEED TREATMENT

Active Ingredients: mefenoxam (phenylamide)......350 g/ℓ

Product names marked ® or ™, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

Hazard statements:

Harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life.

Precautionary statements: Keep out of reach of children. Prevention: Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear eye protection/face protection. Response: If swallowed, call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. If eye irritation persists, get medical advice/attention. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuer inising. Immediately call a POISON CENTRE/doctor. Storage: Protect from sunlight. Store in a well-ventilated place. Disposal: Dispose of contents/container to an approved waste disposal plant.

EMERGENCY TEL NO.: +27 82 446 8946 (Griffon)

UN not classified

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WARNING

1. WARNINGS:

Hazard statements: Harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life.

Withholding periods: Minimum number of days between last application and harvest.

BEETROOT	28 days
BRASSICA	28 days
BULB VEGETABLES	28 days
CARROTS	28 days
COTTON	90 days
CUCURBITS	28 days
DRY BEANS	28 days
FORAGE GRASSES (forage grasses)	60 days
FORAGE LEGUMES	60 days
FRUITING VEGETABLES	28 days
GRAIN SORGHUM	42 days
LEAFY VEGETABLES	28 days
LEGUME VEGETABLES	28 days
LUCERNE	60 days
MAIZE	42 days
MILLET	60 days
PEAS	28 days
SOYBEANS	90 days
SUNFLOWER	90 days
SWEETCORN	42 days
TOBACCO SEEDLINGS	42 days
VEGETABLES, ORNAMENTALS &	•
FORESTRY SEEDLINGS	42 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL), 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, MRL's and recommended withholding periods.

- Harmful if swallowed.
- Toxic to daphnia and animals.
- Store in a cool, dry place.
- Store away from food and feed.
- Avoid storage above 35°C.
- Keep out of reach of children, uninformed persons and.

animals

- Do not use treated seed for human or animal consumption.
- In case of poisoning: Call a doctor and present this label

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 disease against 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 and the environment, or harm to people 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Keep out of reach of children. Wear protective gloves/eye protection/face protection. If eye irritation persists, get medical advice/attention. Prevention: Wear protective gloves/protective clothing. Wear respiratory protection. Response: If swallowed, call a POISON CENTRE/doctor if you feel unwell. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Storage: Dispose of contents/container to an approved waste disposal plant.

- Avoid contact with skin, eyes, or clothing.
- Do not inhale concentrate or mixed product. Wash contaminated clothing after use.
- Do not eat, drink, or smoke while mixing or applying the product or before washing hands and face.
- While handling the concentrate, during treatment of the seed and while handling treated seed wear a face shield, hat or cap and rubber gloves.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, pastures, rivers, dams and bareholes.
- Prevent contamination of food, feed, drinking water and

- eating utensils.
- Destroy empty container in prescribed manner and do not use it for any other purpose.
- When treated seed is stored in containers, mark containers clearly "POISONED" and never use them for any other purpose.

First Aid and Medical Treatment:

General: Place the patient in a well-ventilated area and protect him/her from hypothermia.

In case of suspected poisoning: Immediately call a doctor.

- Eye contact: Rinse eyes with a light stream of clean water for 10 - 15 minutes.
- Ingestion: Repeatedly administer medical charcoal in large quantities of water.
- Skin contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
- **Inhalation:** Immediately move patient to fresh air.

NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Antidote: No specific antidote is known. Apply symptomatic therapy.

3. RELEVANT SUBSTANCES:

Chemical name				
metalax	yl-M (ISO)			
Classification	Concentration (% w/w)			
Acute Tox. 4; H302 Eye Dam. 1; H318	≥ 30 - < 50			

4. RESISTANCE MANAGEMENT:

APRON XL is a group code 4 fungicide. Any fungus population may contain individuals naturally resistant to APRON XL and other group code 4 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by APRON XL or any other group code 4 fungicides.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures with products in fungicide group codes 7, 27, 28, 29, 30 and M.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

For specific information on resistance management, contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at http://www.frac.info/frac/index. html.

5. PRODUCT PROPERTIES:

APRON XL contains mefenoxam, a systemic fungicide with

protective and curative properties.

6. DIRECTIONS FOR USE: Use only as indicated

6.1 Compatibility

APRON XL is compatible with CELEST 100 FS, CELEST XL, CELEST XL WHITE and CRUISER WHITE. The compatibility of APRON XL may be influenced by the quality of the dilution water. Since the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

6.2 Application onto Seed

6.2.1 Mechanical seed dressing equipment

It is generally recommended to apply **APRON XL** as a slurry. The amount of water required will depend on the seed type $(300 - 500 \text{ m}\ell/100 \text{ kg seed}).$

- Fill the slurry tank to the required volume with water.
- Add the required volume of **APRON XL** to the water.
- Commence the stirring or agitation process.

6.2.2 Small seed lot treatment

APRON XL can be applied as a slurry similar to that described.

IMPORTANT: Do not treat seed more than six (6) months before sowing. Dilute APRON XL with clean water prior to seed treatment. For all seed treatments, do only one (1) application unless otherwise indicated in the RECOMMENDATIONS as a drench application. Follow the RECOMMENDATIONS table for specifications.

7. RECOMMENDATIONS:				
Disease	Dosage			
BEETROOT				
Damping-off <i>Pythium</i> spp.	 Apply 100 ml APRON XL per 100 kg seed, OR Apply 33 - 35 ml APRON XL together with 100 - 200 ml CELEST XL per 100 kg seed. 			
BRASSICA Leafy vegetables: Broccoli, brussels sprouts, cabbage, cauliflower, kale, mustard greens and mustard spinach				
Damping-off Pythium spp. ■ Apply 20 - 40 mℓ APRON XL pe 100 kg seed.				
 Remarks For a low disease pressure, use the lower rate and the higher rate for the higher disease pressure. 				
BULB VEGETABLES Garlic, leek, onion dry bulb, onion greens and shallot				
Damping-off <i>Pythium</i> spp.	 Apply 20 - 40 mℓ APRON XL as a seed treatment per 100 kg seed. 			
Remarks • For a low dis	sease pressure, use the lower rate and the			

higher rate for the higher disease pressure

riigher rate for the riigher disease pressure.				
CARROTS				
Damping-off <i>Pythium</i> spp.	•	Apply 200 ml APRON XL per 100 kg, OR Apply 14 - 35 ml APRON XL together with 100 - 200 ml CELEST XL per 100 kg seed.		

	100			
Disease	Dosage			
	COTTON			
Damping-off <i>Pythium</i> spp.	• Apply 25 mℓ APRON XL per 100 kg seed.			
CUCURBITS Cucumber, gherkin, melon, musk melon, pumpkin and squash				
Damping-off Pythium spp	• Apply 20 - 40 ml APRON XL per 100 kg seed.			
Remarks • For a low disease pressure, use the lower rate and the				

	Apply 20 To The 7th Hort X2 por				
<i>Pythium</i> spp	100 kg seed.				
Remarks	0.8				
For a low disease pressure, use the lower rate and the					
higher rate f	or the higher disease pressure.				
DRY BEANS					
Damping-off	• Apply 15 mℓ APRON XL per 100				
Pythium spp.	kg, OR				
Apply 11 mℓ APRON XL together with 125 mℓ CELEST XL per 100 kg					
					seed.
FORAGE GRASSES					

All grasses, Gramineae family, cereal fed to or, grazed by livestock, pastures, range grasses, grasses grown for silage or hav

Damping-off
Pythium spp.

- Apply 40 50 ml APRON XL seed treatment per 100 kg seed, OR
- Apply 33 35 me APRON XL together with 100 - 200 mℓ CELEST XL per 100 kg seed.

Remarks

For a low disease pressure, use the lower rate and the higher rate for the higher disease pressure.

FORAGE LEGUMES

For forage purposes: Alfalfa, clover, beans, soybeans, sovbean hay, vine hay, cowpeas peas, pea

Damping-off Pythium spp. **Phytophthora** root rot

Phytophthora | spp.

(early season protection)

Downy mildew

[suppression] (early season for alfalfa or soybean)

Peronospora manshurica

Apply 40 ml APRON XL as a seed treatment per 100 kg seed, OR

Apply 33 - 35 me APRON XL together with 100 - 200 me CELEST XL per 100 kg seed.

FRUITING VEGETABLES

Eggplant, groundcherry, pepino, pepper cooking, chilli, pimento, sweet), tomatilo and tomato

Damping-off Pythium spp.

Apply 20 - 40 ml APRON XL per 100 kg seed.

Remarks

Seeds sown for transplant: DO NOT apply a preplant or at-plant application of mefenoxam or metalaxyl containing products to seed treated with APRON XL.

Disease	Dosage
	GRAIN SORGHUM
Damping-off <i>Pythium</i> spp.	 Apply 25 ml APRON XL as a seed treatment per 100 kg seed, OR Apply 16.5 - 35.5 ml APRON XL together with 100 ml CELEST XL per 100 kg seed, OR Apply 20 - 40 ml APRON XL together with 5 - 10 ml CELEST 100 FS per 100 kg seed.
Downy mildew Peronosclero- spora sorghi	 Apply 25 - 40 ml APRON XL as a seed treatment per 100 kg seed, OR Apply 40 - 75 ml APRON XL together with 5 - 10 ml CELEST 100 FS per 100 kg seed.

Remarks

- Seed treated with **APRON XL** per 100 kg seed should be planted and not carried over to the next year.
- Only high quality seed (90% germination and above) should be treated with APRON XL.

LEAFY VEGETABLES

Amaranth, celery, chrysanthemum, corn salad, cress, oranch, parsley, purlane, radicchio, rubarb, spinach and Swiss chard

Damping	j-off
Pythium	spp.

- Apply 20 40 mℓ APRON XL as a seed treatment per 100 kg seed, OR
- Apply 33 35 mℓ APRON XL together with 100 - 200 mℓ CELEST XL per 100 kg seed.

Remarks

- **DO NOT** apply **APRON XL** to spinach that is destined to be grown in greenhouses or closed environmentallycontrolled rooms.
- Containers or bags containing APRON XL treated spinach seed must be labeled with the restriction, "DO NOT use seed for spinach destined to be grown in greenhouses or inside environmentally-controlled rooms".

LEGUME VEGETABLES

Cowpeas, okra, lentils, lupins and beans

Damping-off Pythium spp. Phytophthora

root rot Phytophthora spp. (early season protection)

- Apply 40 me APRON XL as a seed treatment per 100 kg seed, OR
- Apply 33 35 me APRON XL together with 100 - 200 mℓ CELEST XL per 100 kg seed.

LUCERNE

Damping-off Pythium spp.

Apply 50 mℓ APRON XL per 100 ka seed.

MAIZE

Downy mildew

Peronosclerospora sorghi

Damping-off Pythium spp.

- Apply 30 mℓ APRON XL per 100 kg seed.
- Apply 30 mℓ APRON XL as a seed treatment per 100 kg seed, OR Apply 16.5 - 35.5 mℓ **APRON XL**

Disease	Dosage				
MAIZE cont.					

together with 100 mℓ CELEST XL per 100 kg seed.

Remarks

- Seed treated with APRON XL should be planted and not carried over to the next year.
- Only high quality seed (90% germination and above) should be treated with APRON XL.
- Allow seed to dry before bagging.
- DO NOT graze or cut for stock food for at least four (4) weeks after sowing treated seed.

	N	ΛI	LL	E.

Damping-off Pythium spp.

- Apply 20 40 ml APRON XL as a seed treatment per 100 kg seed. OR
- Apply 33 35 ml APRON XL together with 100 - 200 mℓ CELEST XL per 100 kg seed.

Downy mildew Sclerospora graminicola

Apply 80 mℓ APRON XL as a seed treatment per 100 kg seed.

Remarks

For a low disease pressure, use the lower rate and the higher rate for the higher disease pressure.

PEAS

Damping-off Pythium spp.

- Downv mildew Peronospora viciae
- Apply 25 100 mℓ APRON XL per 100 kg seed.
- Apply 100 mℓ APRON XL per 100 kg seed.

Remarks

For a low disease pressure, use the lower rate and the higher rate for the higher disease pressure.

SOYBEANS

Damping-off Pythium spp.

- Apply 15 me APRON XL per 100 kg seed. OR
- Apply 11 35 me APRON XL together with 125 mℓ CELEST XL per 100 kg seed.

Remarks

Varieties of high susceptibility to the disease may become infected after 3 - 4 weeks if conditions favour disease development.

SUNFLOWER

Downy mildew Plasmopara halstedii

- Apply 285 ml APRON XL per 100 ka seed. OR
- Apply 282 me APRON XL together with 125 me CELEST XL per 100 kg seed.

SWEETCORN

Damping-off and seed decay Pythium spp.

Peronosclero-

spora sorghi

Downy

mildew

	•	Apply 30 ml APRON XL per 1	100
١		kg seed.	

Disease	Dosage
	SWEETCORN cont.
Damping-off	• 20 ml APRON XL together with
and seed	100 mℓ CELEST XL per 100 kg seed.
decay	
Fusarium spp.	00
Pythium spp.	15

Remarks

- Seed treated with APRON XL per 100 kg seed should be planted and not carried over to the next year.
- Only high quality seed (90% germination and above) should be treated with APRON XL.
- Allow seed to dry before bagging.

TURF GRASSES

Golf courses, home lawns, reclamation and erosion control

Damping	g-off
Pythium	spp.

- Apply 40 80 ml APRON XL as a seed treatment per 100 kg seed, OR
- Apply 33 35.5 mℓ **APRON XL** together with 100 - 200 mℓ CELEST XL per 100 kg seed.

Remarks

For a low disease pressure, use the lower rate and the higher rate for the higher disease pressure.

TOBACCO SEEDLINGS

Black shank
Phytophthora
nicotianae

Apply 35 me APRON XL per 100 e water.

Damping-off Pythium spp.

Apply as a soil drench using 15 ℓ mixture per 10 m² on tobacco seedlings.

Remarks

Applications of APRON XL should commence three (3) weeks post-emergence, or alternatively apply a split application, with maximum two (2) applications, as follows:

Severe disease pressure:

Use **APRON XL** initially at 35 m ℓ per 100 ℓ water, three (3) weeks post-emergence. Repeat at 17,5 ml per 100 l water approximately five (5) days before transplanting.

Low disease pressure:

Use **APRON XL** initially at 17,5 mℓ per 100 ℓ water, three (3) weeks post-emergence. Repeat at 17,5 m ℓ per 100 ℓ water approximately five (5) days before transplanting. It is advisable to wash the product into the soil after application using 15 ℓ clean water per 10 m².

The second application should coincide with irrigation to soften the soil for seedling pulling.

NB: These treatments will not protect the tobacco plant once transplanted. Drenching tobacco seedbeds with suitable registered broad spectrum fungicides at 7 - 14-day intervals is also recommended.

VEGETABLE, ORNAMENTAL AND FORESTRY **SEEDLINGS**

Damping-off Pythium spp.

- Apply 5.3 me APRON XL per 15 e
- Apply as a drench to seedling trays using 1.5 ℓ of the mixture per m² or for two (2) seedling trays.

Remarks

Applications of **APRON XL** should commence when

Disease Dosage

VEGETABLE, ORNAMENTAL AND FORESTRY
SEEDLINGS cont.

seelings are at the 3 - 4-leaf stage and repeated every 14 days until transplant.

No more than three (3) applications per seedling cycle may be done.

APRON®, **CELEST®** and **CRUISER®** are registered trade marks of a Syngenta Group Company. **MEFENOXAM™** is the tradename of metalaxyl-M (ISO common name).

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SA Reg.: 2017-01-31