



# KavachFlo®

Chlorothalonil 40.0% w/w + Difenconazole 4.0% w/w SC

Chlorothalonil 40.0% w/w + Difenconazole 4.0% w/w SC [Chlorothalonil 500 g/L + Difenconazole 50 g/L SC (550 g/L SC)]

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Before applying the product, follow the instructions given on the label and leaflet. Chlorothalonil 40.0% w/w + Difenconazole 4.0% w/w SC is a broad-spectrum foliar fungicide having systemic and contact activity against many plant pathogens (fungal diseases). It is recommended for the control of Early blight and Late blight of Tomato and Powdery Mildew, Anthracnose, Fruit rot of Chilli crops. To express on w/w basis, one litre of this formulation contains 500 gm of Chlorothalonil and 50 gm of Difenconazole.

Chemical Composition:	Chlorothalonil a.i.	40.0% w/w
Difenconazole a.i.	4.0% w/w	
Dispersing Agent: Blockcopolymer PO/E/O	4.64% w/w	
Surfactant: Poly[1-(2-oxy-1-proprilidyl) ethylene]	0.22% w/w	
Anti-freeze: Di-propanediol (1-2)	6.68% w/w	
Antifoaming Agent: Polymethylsiloxane in emulsion	0.18% w/w	
Stabilizing Agent: Silicic acid	0.74% w/w	
Xanthan Gum	0.21% w/w	
Buffer: Sodium hydroxide	0.02% w/w	
Phosphoric acid	0.05% w/w	
Complexing Agent: Ethylenediamine-tetraacetic acid tetrasodium salt	0.22% w/w	
Preservative: 1,2-benzisothiazol-3-one	0.05% w/w	
Total	0.5	100.00% w/w

क्लोरोथैलोनिल ४०.०% भार/भार + डाइफेनोकोनाजोल ४.०% भार/भार एस.सी. [क्लोरोथैलोनिल ५०० ग्रा./ली. + डाइफेनोकोनाजोल ५० ग्रा./ली. एस.सी. (५५० ग्रा./ली. एस.सी.)]

(बहुपयोगी छिड़काव फफूंदनाशक कृषि में उपयोग हेतु)

Application & Recommendation for use: Chlorothalonil 40.0% w/w + Difenconazole 4.0% w/w SC is recommended for the control of various diseases as given below.

Crop	Common name of the disease	a.i. (g/L)	Dosage (g/ml)	Dilution in water (L/ha)	Waiting period from last application to harvest (in days)	Time and Method of Application
Tomato	Early Blight, Late Blight	440*	1000	500	7	Foliar spray with help of high volume knapsack sprayer.
Chilli	Powdery Mildew, Anthracnose, Fruit rot	440*	1000	500	7	Start spray at first of disease infection and repeat one spray at 10-15 days interval depending upon disease incidence.

Calculated as 550 (500+50) gm a.i./ha on w/w basis. Good practices relating to pesticide application techniques covering the following:

- Weather conditions in general: Do not spray during the windy weather conditions or during hot hours of the day. If the foliage is wet or if rain is imminent. Spray strictly in the direction of wind to prevent prolonged or repeated exposure to the spray mist. Do not undertake and overuse by overlapping applications by exceeding the recommended rate.
- Soil and Water: This is not a soil applied fungicide, not applicable. Do not contaminate water used for irrigation or domestic purpose and water areas viz. ponds, ditches, channels, drainage systems, etc., by disposal of product waste and do not allow direct spray or spray drift of product on to these areas to avoid long term adverse effect in the aquatic environment.
- Crops stage for application: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence.
- Application techniques: Foliar spray with sufficient quantity of water to ensure uniform coverage on leaves.
- Equipment type: Spray with knapsack or any other suitable sprayer.
- Nozzle type: hollow cone nozzle or any other suitable nozzle.
- Dosage: Give in the table above.
- Instructions for mixing: Measure out the required quantity of the product and mix it well with a small quantity of water. Add the remaining quantity of water as specified with thorough agitation. Adjust the quantity of product in the water required to cover a hectare and apply by a suitable sprayer e.g. knapsack sprayer.
- Optimal Re-entry period: Do not enter treated areas for 24 hours after each spray.
- Pre-harvest interval: Given in the table above.
- Application timings: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence.
- Frequency including maximum number of sprays: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence. Maximum number of sprays in a crop season are two.

Resistance Management: GROUP M05 3 FUNGICIDE It is recommended to use this fungicide in spray sequence. In case repeated sprays are required for disease control, alternation with another approved fungicide from a different mode of action group is recommended.

- FRAC Group code: Chlorothalonil – M05 and Difenconazole -3.
- Chemical class & Mode of Action: Chlorothalonil (chlorinil) is a contact fungicide with multi-site contact activity, stops the germination of fungal spores. Difenconazole (Trazole) is a steroi demethylase inhibitor.

Storage: 1. The package containing the fungicide should be tightly closed, stored in original containers. 2. The rooms or premises meant for storing the fungicide shall be well built, dry, well-ill and ventilated with sufficient dimension and contact with the work. 3. Keep up of record of children and other unauthorized persons and animals. 4. Do not allow for contact to the fungicide.

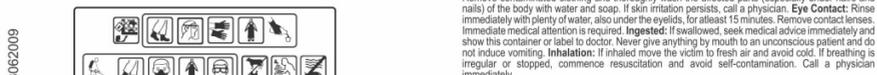
Precautions: Do not use cooking utensils for preparing the spray solution. Use wooden stick for stirring spray solution. Avoid contact of product concentrate or spray mixture with skin, eyes, mouth and clothing. Avoid inhalation of fog, vapors or spray mist. Wear protective clothing (full sleeve shirt and pants), chemical resistant gloves, mask, goggles, cap/hat and boots while handling the product. Do not eat, drink, chew or smoke while applying the product. Wash hands with soap and plenty of water. Clean protective equipment and change clothes after the work is over. Avoid contamination of air and water bodies with the fungicide. Also wash the contaminated clothes separately from other clothing before washing. New or treated areas must not be grazed and all livestock are to be kept out until the treated area is dry. This product should not be applied (tank-mix) with any other chemical. Do not use nozzle with mouth. Do not spray crops under stress. Do not mix with other chemicals. Dangerous to use-employ containers. Rinse empty container three times before disposal and add insects in spray tank before use. Do not re-use empty container for any other purpose. Do not use empty container for any other purpose, stop the work, follow first aid measures and call a physician immediately. Spill product must be re-used. Remove highly contaminated soil water, collect spill material thoroughly and bury it in a safe place away from water. Run-off to surface water should be avoided. In case of any sign of poisoning, immediately consult the doctor.

First Aid measures: Remove the affected person from the danger zone to a well-ventilated room to rest. Wash exposed areas with plenty of water. Call a physician immediately. Remove contaminated clothing and thoroughly wash the affected parts (especially under ears and neck) of the body with water and soap. If skin irritation persists, call a physician. Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. If irritation persists, call a physician immediately. Inhalation: If inhaled, move the victim to fresh air and avoid cold. If breathing is difficult or stopped, commence resuscitation and avoid self-ventilation. Call a physician immediately.

Antidote: No specific antidote is known, treat symptomatically. The user bears the risk for damage resulting from factors beyond the manufacturer's control.

For any complaints, please contact our Customer Service Executive. Syngenta India Limited, Amar Paradigm, S. No. 110/11/3, Baner Road, Pune-411 045, Maharashtra, India. Telephone No.: 020 66845533, Toll Free : 1800 2001 310 Email: customercare.india@syngenta.com Website : www.syngenta.com

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# कवच फलो

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[Chlorothalonil 500 g/L + Difenconazole 50 g/L SC (550 g/L SC)]

(बहुपयोगी छिड़काव फफूंदनाशक कृषि में उपयोग हेतु)

संघटक:	क्लोरोथैलोनिल स.त.	४०.०% भार/भार
Difenconazole a.i. <td>४.०% भार/भार</td> <td></td>	४.०% भार/भार	
Dispersing Agent: Blockcopolymer PO/E/O <td>४.६४% भार/भार</td> <td></td>	४.६४% भार/भार	
Surfactant: Poly[1-(2-oxy-1-proprilidyl) ethylene] <td>०.२२% भार/भार</td> <td></td>	०.२२% भार/भार	
Anti-freeze: Di-propanediol (1-2) <td>६.६८% भार/भार</td> <td></td>	६.६८% भार/भार	
Antifoaming Agent: Polymethylsiloxane in emulsion <td>०.१८% भार/भार</td> <td></td>	०.१८% भार/भार	
Stabilizing Agent: Silicic acid <td>०.७४% भार/भार</td> <td></td>	०.७४% भार/भार	
Xanthan Gum <td>०.२१% भार/भार</td> <td></td>	०.२१% भार/भार	
Buffer: Sodium hydroxide <td>०.०२% भार/भार</td> <td></td>	०.०२% भार/भार	
Phosphoric acid <td>०.०५% भार/भार</td> <td></td>	०.०५% भार/भार	
Complexing Agent: Ethylenediamine-tetraacetic acid tetrasodium salt <td>०.२२% भार/भार</td> <td></td>	०.२२% भार/भार	
Preservative: 1,2-benzisothiazol-3-one <td>०.०५% भार/भार</td> <td></td>	०.०५% भार/भार	
Total <td>०.५ <td>१००.००% भार/भार</td> </td>	०.५ <td>१००.००% भार/भार</td>	१००.००% भार/भार

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- Application techniques: Foliar spray with sufficient quantity of water to ensure uniform coverage on leaves.
- Equipment type: Spray with knapsack or any other suitable sprayer.
- Nozzle type: hollow cone nozzle or any other suitable nozzle.
- Dosage: Give in the table above.
- Instructions for mixing: Measure out the required quantity of the product and mix it well with a small quantity of water. Add the remaining quantity of water as specified with thorough agitation. Adjust the quantity of product in the water required to cover a hectare and apply by a suitable sprayer e.g. knapsack sprayer.
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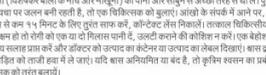
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क्लोरोथैलोनिल ४०.०% डब्ल्यू/डब्ल्यू + डाइफेनोकोनाजोल ४.०% डब्ल्यू/डब्ल्यू एस.सी. [क्लोरोथैलोनिल ५०० ग्राम./लिट्र + डाइफेनोकोनाजोल ५० ग्राम./लिट्र एस.सी. (५५० ग्राम./लिट्र एस.सी.)]

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संघटक:	क्लोरोथैलोनिल स.त.	४०.०% डब्ल्यू/डब्ल्यू
Difenconazole a.i. <td>४.०% डब्ल्यू/डब्ल्यू</td> <td></td>	४.०% डब्ल्यू/डब्ल्यू	
Dispersing Agent: Blockcopolymer PO/E/O <td>४.६४% डब्ल्यू/डब्ल्यू</td> <td></td>	४.६४% डब्ल्यू/डब्ल्यू	
Surfactant: Poly[1-(2-oxy-1-proprilidyl) ethylene] <td>०.२२% डब्ल्यू/डब्ल्यू</td> <td></td>	०.२२% डब्ल्यू/डब्ल्यू	
Anti-freeze: Di-propanediol (1-2) <td>६.६८% डब्ल्यू/डब्ल्यू</td> <td></td>	६.६८% डब्ल्यू/डब्ल्यू	
Antifoaming Agent: Polymethylsiloxane in emulsion <td>०.१८% डब्ल्यू/डब्ल्यू</td> <td></td>	०.१८% डब्ल्यू/डब्ल्यू	
Stabilizing Agent: Silicic acid <td>०.७४% डब्ल्यू/डब्ल्यू</td> <td></td>	०.७४% डब्ल्यू/डब्ल्यू	
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Buffer: Sodium hydroxide <td>०.०२% डब्ल्यू/डब्ल्यू</td> <td></td>	०.०२% डब्ल्यू/डब्ल्यू	
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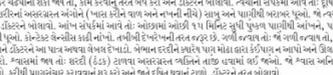
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# कवच फलो

क्लोरोथैलोनिल ४०.०% डब्ल्यू/डब्ल्यू + डाइफेनोकोनाजोल ४.०% डब्ल्यू/डब्ल्यू एस.सी. [क्लोरोथैलोनिल ५०० ग्राम./लिट्र + डाइफेनोकोनाजोल ५० ग्राम./लिट्र एस.सी. (५५० ग्राम./लिट्र एस.सी.)]

[Chlorothalonil 500 g/L + Difenconazole 50 g/L SC (550 g/L SC)]

(बहुपयोगी छिड़काव फफूंदनाशक कृषि में उपयोग हेतु)

संघटक:	क्लोरोथैलोनिल स.त.	४०.०% डब्ल्यू/डब्ल्यू
Difenconazole a.i. <td>४.०% डब्ल्यू/डब्ल्यू</td> <td></td>	४.०% डब्ल्यू/डब्ल्यू	
Dispersing Agent: Blockcopolymer PO/E/O <td>४.६४% डब्ल्यू/डब्ल्यू</td> <td></td>	४.६४% डब्ल्यू/डब्ल्यू	
Surfactant: Poly[1-(2-oxy-1-proprilidyl) ethylene] <td>०.२२% डब्ल्यू/डब्ल्यू</td> <td></td>	०.२२% डब्ल्यू/डब्ल्यू	
Anti-freeze: Di-propanediol (1-2) <td>६.६८% डब्ल्यू/डब्ल्यू</td> <td></td>	६.६८% डब्ल्यू/डब्ल्यू	
Antifoaming Agent: Polymethylsiloxane in emulsion <td>०.१८% डब्ल्यू/डब्ल्यू</td> <td></td>	०.१८% डब्ल्यू/डब्ल्यू	
Stabilizing Agent: Silicic acid <td>०.७४% डब्ल्यू/डब्ल्यू</td> <td></td>	०.७४% डब्ल्यू/डब्ल्यू	
Xanthan Gum <td>०.२१% डब्ल्यू/डब्ल्यू</td> <td></td>	०.२१% डब्ल्यू/डब्ल्यू	
Buffer: Sodium hydroxide <td>०.०२% डब्ल्यू/डब्ल्यू</td> <td></td>	०.०२% डब्ल्यू/डब्ल्यू	
Phosphoric acid <td>०.०५% डब्ल्यू/डब्ल्यू</td> <td></td>	०.०५% डब्ल्यू/डब्ल्यू	
Complexing Agent: Ethylenediamine-tetraacetic acid tetrasodium salt <td>०.२२% डब्ल्यू/डब्ल्यू</td> <td></td>	०.२२% डब्ल्यू/डब्ल्यू	
Preservative: 1,2-benzisothiazol-3-one <td>०.०५% डब्ल्यू/डब्ल्यू</td> <td></td>	०.०५% डब्ल्यू/डब्ल्यू	
Total <td>०.५ <td>१००.००% डब्ल्यू/डब्ल्यू</td> </td>	०.५ <td>१००.००% डब्ल्यू/डब्ल्यू</td>	१००.००% डब्ल्यू/डब्ल्यू

Application & Recommendation for use: Chlorothalonil 40.0% w/w + Difenconazole 4.0% w/w SC is recommended for the control of various diseases as given below.

Crop	Common name of the disease	a.i. (g/L)	Dosage (g/ml)	Dilution in water (L/ha)	Waiting period from last application to harvest (in days)	Time and Method of Application
Tomato	Early Blight, Late Blight	440*	1000	500	7	Foliar spray with help of high volume knapsack sprayer.
Chilli	Powdery Mildew, Anthracnose, Fruit rot	440*	1000	500	7	Start spray at first of disease infection and repeat one spray at 10-15 days interval depending upon disease incidence.

Calculated as 550 (500+50) gm a.i./ha on w/w basis. Good practices relating to pesticide application techniques covering the following:

- Weather conditions in general: Do not spray during the windy weather conditions or during hot hours of the day. If the foliage is wet or if rain is imminent. Spray strictly in the direction of wind to prevent prolonged or repeated exposure to the spray mist. Do not undertake and overuse by overlapping applications by exceeding the recommended rate.
- Soil and Water: This is not a soil applied fungicide, not applicable. Do not contaminate water used for irrigation or domestic purpose and water areas viz. ponds, ditches, channels, drainage systems, etc., by disposal of product waste and do not allow direct spray or spray drift of product on to these areas to avoid long term adverse effect in the aquatic environment.
- Crops stage for application: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence.
- Application techniques: Foliar spray with sufficient quantity of water to ensure uniform coverage on leaves.
- Equipment type: Spray with knapsack or any other suitable sprayer.
- Nozzle type: hollow cone nozzle or any other suitable nozzle.
- Dosage: Give in the table above.
- Instructions for mixing: Measure out the required quantity of the product and mix it well with a small quantity of water. Add the remaining quantity of water as specified with thorough agitation. Adjust the quantity of product in the water required to cover a hectare and apply by a suitable sprayer e.g. knapsack sprayer.
- Optimal Re-entry period: Do not enter treated areas for 24 hours after each spray.
- Pre-harvest interval: Given in the table above.
- Application timings: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence.
- Frequency including maximum number of sprays: The first spray to be given as preventive or at initial disease appearance followed by one spray at 10-15 days interval depending upon disease incidence. Maximum number of sprays in a crop season are two.

Resistance Management: GROUP M05 3 FUNGICIDE It is recommended to use this fungicide in spray sequence. In case repeated sprays are required for disease control, alternation with another approved fungicide from a different mode of action group is recommended.

- FRAC Group code: Chlorothalonil – M05 and Difenconazole -3.
- Chemical class & Mode of Action: Chlorothalonil (chlorinil) is a contact fungicide with multi-site contact activity, stops the germination of fungal spores. Difenconazole (Trazole) is a steroi demethylase inhibitor.

Storage: 1. The package containing the fungicide should be tightly closed, stored in original containers. 2. The rooms or premises meant for storing the fungicide shall be well built, dry, well-ill and ventilated with sufficient dimension and contact with the work. 3. Keep up of record of children and other unauthorized persons and animals. 4. Do not allow for contact to the fungicide.

Precautions: Do not use cooking utensils for preparing the spray solution. Use wooden stick for stirring spray solution. Avoid contact of product concentrate or spray mixture with skin, eyes, mouth and clothing. Avoid inhalation of fog, vapors or spray mist. Wear protective clothing (full sleeve shirt and pants), chemical resistant gloves, mask, goggles, cap/hat and boots while handling the product. Do not eat, drink, chew or smoke while applying the product. Wash hands with soap and plenty of water. Clean protective equipment and change clothes after the work is over. Avoid contamination of air and water bodies with the fungicide. Also wash the contaminated clothes separately from other clothing before washing. New or treated areas must not be grazed and all livestock are to be kept out until the treated area is dry. This product should not be applied (tank-mix) with any other chemical. Do not use nozzle with mouth. Do not spray crops under stress. Do not mix with other chemicals. Dangerous to use-employ containers. Rinse empty container three times before disposal and add insects in spray tank before use. Do not re-use empty container for any other purpose. Do not use empty container for any other purpose, stop the work, follow first aid measures and call a physician immediately. Spill product must be re-used. Remove highly contaminated soil water, collect

