



PESTICIDES REGISTERED IN NSW FOR THE CONTROL OF DISEASES OF CUCUMBER CURRENT AT 5/04/2023[#]. **ALWAYS READ THE LABEL.**

Active chemical *FRAC Activity Group in brackets	Some common trade names ®	Rate per		Withholding period (days)	Critical Use Comments/Restraints
		100 L	ha		
ALTERNARIA LEAF BLIGHT (<i>Alternaria cucumerina</i>)					
Chlorothalonil (500 g/kg) (Gp M5)*	Whack 500	—	2.4 - 3.6 L	1	• Do not add wetting agents or crop oils.
Chlorothalonil (720 g/L) (Gp M5)*	Bravo Barrack	—	1.6 - 2.5 L		
Chlorothalonil (900 g/kg) (Gp M5)*	Echo 900	—	1.3 - 2.1 kg		
Difenoconazole (125 g/L) + Pydiflumetofen (75 g/L) (Gp 3 + Gp 7)*	Miravis DUO Adepidyn Technology Fungicide	Trellised crops 80 – 100 mL	Non- trellised crops 800 – 1000 mL	1	• Do not apply more than 2 applications per crop per year. • Can be used in field and protected cropping situations. • Refer to label for further critical comments.
ANGULAR LEAF SPOT (<i>Pseudomonas syringae</i> pv <i>lachrymans</i>)					
Copper based fungicides (Gp M1)*	Nufarm Champ 500WG Fungicide	105 g	—	1	• Do not apply under poor drying conditions. • Do not apply during the hottest part of the day when temperatures exceed 35°C. • Do not apply if hot or frost prone conditions prevail. • Do not apply to wet crops. • Test for possible phytotoxicity on a few plants before full application. • Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.
ANTHRACNOSE (<i>Colletotrichum orbiculare</i>)					
Chlorothalonil (500 g/L) (Gp M5)*	Whack 500	—	2.4 - 3.6 L	1	• Do not add wetting agents or crop oils.
Chlorothalonil (720 g/L) (Gp M5)*	Bravo Barrack	—	1.6 - 2.5 L		
Chlorothalonil (900 g/L) (Gp M5)*	Echo 900 Whack 900	—	1.3 - 2.1 L		
Copper fungicide (as copper oxychloride) (500 g/kg) (Gp M1)*	Coppox WP	200 g	—	1	• Apply at the first sign of disease and repeat every 7-10 days.

Active chemical *FRAC Activity Group in brackets	Some common trade names ®	Rate per		Withholding period (days)	Critical Use Comments/Restraints
		100 L	ha		
Mancozeb (750 g/kg) & (800 g/kg) (Gp M3)*	Mancozeb Dithane Rainshield Neo Tec Fungicide	150 - 200 g	1.7 - 2.2 kg	7	<ul style="list-style-type: none"> Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.
Propineb (560 g/kg) + Oxadixyl (80 g/kg) (Gp M3 + Gp 4)*	Rebound	250 g	2.5 kg	3	<ul style="list-style-type: none"> Do not use as a curative.
Zineb (800 g/kg) (Gp M3)*	Zineb	150 g	—	7	<ul style="list-style-type: none"> See label for detailed critical comments.
BACTERIAL LEAF SPOT (<i>Xanthomonas campestris</i>)					
Copper based fungicides (Gp M1)*	Nufarm Copper Hydroxide 500 Fungicide	105 g	—	1	<ul style="list-style-type: none"> Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.
BOTRYTIS ROT / GREY MOULD (<i>Botrytis cinerea</i>)					
<i>Aureobasidium pullans</i> (DSM strains 1490 & DSM 14941) (5 x 10 ⁹) Biological	Nufarm Botector	100 g	—	Nil when used as directed	<ul style="list-style-type: none"> Apply as a preventative.
Captan (800 g/kg or 900 g/kg) (Gp M4)* APVMA permit 14326 expires 30/6/2024	Captan	125 g for 800 g/kg product or 110 g for 900 g/kg product	—	7	<ul style="list-style-type: none"> Apply a maximum three (3) foliar spray applications per crop, with a re-treatment interval of 7 – 14 days using suitable air-blast sprayer, ground boom sprayer, or similar equipment. Apply at critical times when conditions favour disease development. Captan is a protective fungicide and must be applied to crops prior to symptoms of the disease appearing to be fully effective. Complete and thorough coverage of foliage and other parts of the crop is essential to achieve good control. Apply spray diluent to the point of run-off.
Chlorothalonil (500 g/L) (720 g/L) (900 g/L) (Gp M5)* APVMA permit 82895 Expires 31/8/2025	Whack 500 Bravo Echo 900	—	2.6 – 3.6 L 1.8 – 2.5 L 1.4– 2 L	1	<ul style="list-style-type: none"> Apply a maximum of 4 applications with a minimum re-treatment interval of 7. days between applications. Field and protected cropping situations.
Cyprodinil (375 g/kg) + Fludioxonil (250 g/kg) (Gp 9 + Gp 12)*	Switch	—	800 g – 1 kg	3	<ul style="list-style-type: none"> Apply at onset of disease. Repeat 7-10 day interval. Apply no more than 3 sprays per crop.

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Fenhexamid 500 g/L (Gp 17)*	Imtrade Fenhexamid 500 SC	100 mL	1 L	3	<ul style="list-style-type: none"> • Apply prior to or at the onset of disease. • A repeat application can be made at least 7 -10 days apart. • DO NOT apply more than two applications per crop. • Follow a complete disease management program for Botrytis by rotating with fungicides from unrelated chemical groups as per the CropLife fungicide resistance management guidelines. • Add non-ionic surfactant at recommended rates.
Iprodione (250 g/L) (500/g/L) (Gp 2)* APVMA permit 81589 Expires 30/6/2026	Various Rovral	200 mL for 250 g/L product or 100 mL for 500 g/L product	2 L for 250 g/L or 1 L for 500 g/L	7	<ul style="list-style-type: none"> • Apply as a foliar spray when conditions favour disease development. • Apply no more than three (3) applications per crop using boom sprayer, with a 14-day interval between treatments. • Use sufficient spray volume to ensure thorough coverage of plants • Can be used in field and protected cropping situations.
Mancozeb (750 g/kg) (Gp M3)* APVMA permit 14046 expires 31/1/2028	Dithane Mancozeb	150 – 200 g	1.7 - 2.2 g	7	<ul style="list-style-type: none"> • Do not apply more than 8 applications per crop.
Penthiopyrad (200 g/L) (Gp 7)*	Fontelis	—	1.75 L	1	<ul style="list-style-type: none"> • Begin applications prior to disease development & continue on 7-10 day interval. • Use shorter intervals if disease pressure is high. • Do not apply more than 2 consecutive applications of this product or other Group 7 fungicides – change to a fungicide from another activity group. • Apply no more than 3 sprays per crop.
Pyrimethanil (400 g/L) (600 g/L) (Gp 9)* APVMA permit 7909 expires 30/9/2027	Protector 400SC Scala 600 SC	200 mL or 125 mL	2 L or 1.25 L	1	<ul style="list-style-type: none"> • Apply during flowering when conditions favour disease development. • Repeat after a minimum 7-day re-treatment interval. • Use water volumes of 400 to 1000 L/Ha depending on equipment and crop stage to ensure adequate penetration of the canopy and coverage of foliage and flowers and/or fruit. • Non-ionic wetting agents may be used. • DO NOT apply more than two applications of Scala (or other group 9 fungicides).

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		100 L	ha		
DAMPING OFF (<i>Phytophthora</i> and <i>Pythium</i> spp.)					
Metalaxyl (50 g/kg) (Gp 4)*	Medley 50G	Refer to label		7	<ul style="list-style-type: none">• Soil treatment only.• Apply pre-planting only.
Metalaxyl-M (25 g/kg) (Gp 4)*	Ridomil Gold 25G	Refer to label		7	<ul style="list-style-type: none">• Add to seedling mix.• Apply pre-planting only.
DOWNY MILDEW (<i>Pseudoperonspora cubensis</i>)					
Ametoctradin (300 g/L) + Dimethomorph (225 g/L) (Gp 45 + Gp 40)*	Zampro Fungicide	—	800 mL	1	<ul style="list-style-type: none">• Apply when conditions favour disease development, but before disease is evident.• Apply 2 consecutive sprays 7 to 10 days apart.• Apply a maximum of 2 applications per crop.• Can be used in field and protected cropping situations.
Azoxystrobin (250 g/L) (Gp 11)*	Amistar	80 - 120 mL	—	1	<ul style="list-style-type: none">• Apply a maximum of 4 sprays per crop.• Do not apply more than 2 consecutive sprays.• Rotate with different fungicide group.
Azoxystrobin (155 g/L) + Oxathiapiprolin (15g/L) (Gp 11 + Gp 49)*	Orondis Flexi	—	800 - 1000 mL	3	<ul style="list-style-type: none">• Maximum 2 sprays/crop.
Chlorothalonil (500 g/L) (Gp M5)*	Whack 500	—	2.4 - 3.6 L	1	<ul style="list-style-type: none">• Do not add wetting agents or crop oils.
Chlorothalonil (720 g/L) (Gp M5)*	Bravo Barrack	—	1.6 - 2.5 L		
Chlorothalonil (900 g/L) (Gp M5)*	Echo 900 Whack 900	—	1.3 - 2.1 L		
Copper fungicide (as copper ammonium acetate) (93 g/L) (Gp M1)*	Liquicop Cop-It	400 mL	2.5 L	1	<ul style="list-style-type: none">• See label for detailed critical comments.
Copper fungicide (as copper octanoate) (18 g/L) (Gp M1)*	Tricop	1 L	—	1	<ul style="list-style-type: none">• Do not apply under poor drying conditions.• Do not apply if hot or frost prone conditions prevail.• Do not apply to wet crops.• Test for possible phytotoxicity on a few plants before full application.
Copper fungicide (as copper oxychloride) (500 g/kg) (Gp M1)*	Coppox WP	200 g	—	1	<ul style="list-style-type: none">• Apply at the first sign of disease and repeat- every 7-10 days.

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Dimethomorph (500 g/kg) (Gp 40)*	Acrobat	—	360 mL	7	<ul style="list-style-type: none"> • Mix with mancozeb or propineb according to label. • Apply a maximum of 4 sprays per crop. • Apply 2 consecutive sprays then rotate with different fungicide group.
Fluopicolide (62.5 g/L) + Propamocarb HCl (625 g/L) (Gp 28 + Gp 43)*	Infinito SC Fungicide	—	1.2 – 1.6 L	1	<ul style="list-style-type: none"> • Field and protected cropping systems. • Apply in protectant program with 2 consecutive sprays 7-10 days apart then rotate with different fungicide group.
Mancozeb (750 g/kg) & (800 g/kg) (Gp M3)*	Mancozeb Dithane Rainshield Neo Tec Fungicide	150 - 200 g	1.7 - 2.2 kg	7	<ul style="list-style-type: none"> • Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.
Mancozeb (640 g/kg) + Metalaxyl (80 g/kg) (Gp M3 + Gp 4)*	Maxyl Ridomil Gold MZ	250 g	—	7	<ul style="list-style-type: none"> • Begin applications prior to disease development and continue on 7-10 day interval. • Use non-ionic wetter.
Metalaxyl (50g/kg) + Copper hydroxide (600g/kg) (Gp 4 + Gp M1)	Ridomil Gold Plus	—	2 kg	7	<ul style="list-style-type: none"> • Use non-ionic wetter.
Metiram (700 g/kg) (Gp M3)*	Polyram	High volume 200 g	Low volume 2.2 kg	2	<ul style="list-style-type: none"> • Add non-ionic surfactant.
Oxathiapiprolin (100 g/L) (Gp 49)*	DuPont Zorvec Enicade	—	350 mL	1	<ul style="list-style-type: none"> • Do not use on hydroponic crops. • Use with a protectant fungicide. • Apply 2 consecutive sprays 7-10 days apart then rotate with different fungicide group. • Do not apply more than 3 sprays to each crop.
Phosphorous acid (400 g/L) Phosphorous acid (600 g/L) (Gp 33)*	Sprayphos 400 Agri-Fos 600	—	4.5 L Or 3 L	Nil when used as directed	<ul style="list-style-type: none"> • Test for possible phytotoxicity on a few plants before full application.
Propineb (560 g/kg) + Oxadixyl (80 g/kg) (Gp M3 + Gp 4)*	Rebound	250 g	2.5 kg	3	<ul style="list-style-type: none"> • Do not use as a curative.
Propineb (700 g/kg) (Gp M3)*	Antracol	200 g	2 kg	3	<ul style="list-style-type: none"> • See label for detailed critical comments.
Zineb (800 g/kg) (Gp M3)*	Zineb	150 g	—	7	<ul style="list-style-type: none"> • See label for detailed critical comments.

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GUMMY STEM BLIGHT (<i>Stagonosporopsis spp.</i>)					
Azoxystrobin (250 g/L) (Gp 11)*	Amistar & others	120 mL	—	1	<ul style="list-style-type: none">• Apply a maximum of 4 sprays per crop.• Do not apply more than 2 consecutive sprays.• Rotate with different fungicide group.
Azoxystrobin (155 g/L) + Oxathiapiprolin (15g/L) (Gp 11 + Gp 49)*	Orondis Flexi	—	800 - 1000 mL	3	<ul style="list-style-type: none">• Suppression only.• Maximum 2 sprays/crop.
Chlorothalonil (500 g/L) (Gp M5)*	Whack 500	—	2.4 - 3.6 L	1	<ul style="list-style-type: none">• Do not add wetting agents or crop oils.
Chlorothalonil (720 g/L) (Gp M5)*	Bravo Barrack	—	1.6 - 2.5 L		
Chlorothalonil (900 g/L) (Gp M5)*	Echo 900	—	1.3 - 2.1 L		
Difenoconazole (125 g/L) + Pydiflumetofen (75 g/L) (Gp 3 + Gp 7)*	Miravis DUO Adepidyn Technology Fungicide	Trellised crops 80 – 100 mL	Non- trellised crops 800 – 1000 mL	1	<ul style="list-style-type: none">• Do not apply more than 2 applications per crop per year.• Can be used in field and protected cropping situations Refer to label for further critical comments.
Mancozeb (750 g/kg) & (800 g/kg) (Gp M3)*	Mancozeb Dithane Rainshield Neo Tec Fungicide	150 - 200 g	1.7 - 2.2 kg	7	<ul style="list-style-type: none">• Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.• Ensure thorough coverage.
Metiram (700 g/kg) (Gp M3)*	Polyram	High volume 200 g	Low volume 2.2 kg	2	<ul style="list-style-type: none">• Add a non-ionic surfactant.
Penthiopyrad (200g/L) (Gp 7)*	Fontelis	—	1.75 L	1	<ul style="list-style-type: none">• Begin applications prior to disease development & continue on 7-10 day interval.• Use shorter intervals if disease pressure is high.• Do not apply more than 2 consecutive applications of this product or other Group 7 fungicides – change to a fungicide from another activity group.• Do not apply more than 3 applications per season.
Propineb (560 g/kg) + Oxadixyl (80 g/kg) (Gp M3 + Gp 4)*	Rebound	250 g	2.5 kg	3	<ul style="list-style-type: none">• Do not use as a curative.

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Powdery Mildew					
Azoxystrobin (250 g/L) (Gp 11)*	Amistar and others	80 - 120 mL	—	1	<ul style="list-style-type: none">• Apply a maximum of 4 sprays per crop.• Do not apply more than 2 consecutive sprays.
Azoxystrobin (155 g/L) + Oxathiapiprolin (15g/L) (Gp 11 + Gp 49)*	Orondis Flexi	—	800 - 1000 mL	3	<ul style="list-style-type: none">• Suppression only.• Maximum 2 sprays/crop.
Bupirimate (250 g/L) (Gp 8)*	Nimrod	60 mL	600 mL	1	<ul style="list-style-type: none">• Do not apply in hot, cold or slow drying conditions.• Maximum 4 sprays per crop at 7-day intervals.
Copper (as copper octanoate) (18 g/L) (Gp M1)*	Tricop	1 L	—	1	<ul style="list-style-type: none">• Do not apply under poor drying conditions.• Do not apply if hot or frost prone conditions prevail.• Do not apply to wet crops.• Spray at first sign of disease.• Test for possible phytotoxicity on a few plants before full application.
Copper fungicide (as copper oxychloride) (500 g/kg) (Gp M1)*	Coppox WP	200 g	—	1	<ul style="list-style-type: none">• Apply at the first sign of disease and repeat- every 7-10 days.
Cyflufenamid (50 g/L) (Gp U6)*	Flute Cyflamid	25 mL Protected cropping	250 mL	1	<ul style="list-style-type: none">• Apply when conditions favour disease at 7-10 day intervals.• Apply to the point of run-off.• Do not apply more than 2 sprays per crop.
Difenoconazole (125 g/L) + Pydiflumetofen (75 g/L) (Gp 3 + Gp 7)*	Miravis DUO Adepidyn Technology Fungicide	Trellised crops 80 – 100 mL	Non- trellised crops 800 – 1000 mL	1	<ul style="list-style-type: none">• Do not apply more than 2 applications per crop per year.• Can be used in field and protected cropping situations.• Refer to label for further critical comments.
Florylpicoxamid (100 g/L) (Gp 21)*	GF-4536 SC Fungicide	125 – 150 mL	1.25 – 1.5 L	1	<ul style="list-style-type: none">• Can be used in field or protected cropping situations.• Do not apply more than 2 applications per crop per year.• Refer to label for further critical comments.
Hydrogen peroxide (320 g/L) + Peroxy acetic acid (80 g/L) (Gp M)*	Peratec Plus	1 L	—	1	<ul style="list-style-type: none">• Use 2 consecutive sprays at 5-day intervals.• Use shorted spray intervals on heavy infestations.• No more than 4 sprays used per crop.• Use in a disease management strategy with applications made to maintain low disease pressure.

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Metrafenone (500 g/L) (Gp U8)*	Vivando	—	150 - 300 mL	7	<ul style="list-style-type: none"> • Apply as a preventative before disease commences. • Apply 2 consecutive sprays with 7-10 day intervals. • Do not apply more than 4 sprays per crop.
Penthiopyrad (200 g/L) (Gp 7)*	Fontelis	—	1.75 L	1	<ul style="list-style-type: none"> • Begin applications prior to disease development & continue on 7-10 day interval. • Use shorter intervals if disease pressure is high. • Do not apply more than 2 consecutive applications of this product or other Group 7 fungicides – change to a fungicide from another activity group.
Potassium bicarbonate (940 g/kg potassium salt) (Gp M2)* APVMA permit 13695 Expires 31/7/2025	EcoCarb Fungicide	300 – 400 g + Synertrol Horti-Oil	—	Nil when used as directed	<ul style="list-style-type: none"> • Use with 200 mL/100L Synertrol Horti-Oil. • Do not apply to plants under moisture or heat stress. • Apply at first sign of disease. • For protected cropping only. • Do not apply oil sprays within 10 days of applying Chlorothalonil.
Potassium bicarbonate (633g/kg) + Potassium silicate (312g/kg) (Gp M2)*	EcoCarb Plus	300 - 400 g	—	Nil when used as directed	<ul style="list-style-type: none"> • Use with 200 mL/100L Synertrol Horti-Oil. • Apply at first sign of disease and repeat ensuring thorough coverage of all plant surfaces. • Do not use within 10 days of applying chlorothalonil. • Avoid use in hot and humid greenhouses.
Proquinazid (200 g/L) (Gp 13)*	Talendo	—	250 mL	1	<ul style="list-style-type: none"> • Use as protectant treatment only. • Repeat at 10-14 day intervals. • Do not apply more than 3 sprays per crop and no more than 2 consecutive sprays. • Field only – NOT for protected cropping situations.
Pyriofenone (300 g/L) (Gp 50)*	Kusabi	Protected cropping 50 mL	Field 300-500 mL	Nil when used as directed	<ul style="list-style-type: none"> • Apply when conditions favour disease with other fungicides at 7-10 day intervals. • Do not apply more than 3 sprays per crop.
Tea Tree Oil (222 g/L) (Gp 46)*	Timorex Gold	—	1 – 2 L	Nil when used as directed	<ul style="list-style-type: none"> • Apply in 7-10 day intervals.
Triadimefon (125 g/L) (Gp 3)*	4 Farmers Triadimefon 125	40 mL	400 mL	1	<ul style="list-style-type: none"> • Rotate with different fungicide groups. • Maximum 4 sprays / crop.
Triadimenol (250 g/L) (Gp 3)*	Bayfidan Tridim	40 mL	400 mL	1	

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		100 L	ha		
Trifloxystrobin (500 g/kg) (Gp 11)* APVMA permit 14050 Expires 31/03/2028	Flint	—	105 - 140 g	3	<ul style="list-style-type: none"> Do not apply consecutive Flint treatments. Alternate with different fungicide groups. No more than two (2) applications per crop. Protected cropping grown cucumbers.
SCLEROTINIA ROT (<i>Sclerotinia sclerotiorum</i>)					
Iprodione (250 g/L) (500 g/L) (Gp 2)* APVMA permit 81589 Expires 30/6/2026	Various Rovral	200 mL for 250 g/L product or 100 mL for 500 g/L product	2 L for 250 g/L or 1 L for 500 g/L	7	<ul style="list-style-type: none"> Apply as a foliar spray when conditions favour disease development. Apply no more than three (3) applications per crop using boom sprayer, with a 14-day interval between treatments. Use sufficient spray volume to ensure thorough coverage of plants. Can be used in field and protected cropping situations.
Azoxystrobin (155 g/L) + Oxathiapiprolin (15g/L) (Gp 11 + Gp 49)*	Orondis Flexi	—	800 - 1000 mL	3	<ul style="list-style-type: none"> Suppression only. Maximum 2 sprays/crop.
<i>Aureobasidium pullans</i> (DSM strains 1490 & DSM 14941) (5 x 10 ⁹) Biological	Nufarm Botector	100 g	—	Nil when used as directed	<ul style="list-style-type: none"> Apply as a preventative. Suppression only.
Septoria Leaf Spot (<i>Septoria cucurbitacearum</i>)					
Mancozeb (750 g/kg) & (800 g/kg (Gp M3))*	Mancozeb Dithane Rainshield Neo Tec Fungicide	150 - 200 g	1.7 - 2.2 kg	7	<ul style="list-style-type: none"> Apply at the first sign of disease and repeat- every 7-10 days while conditions allow infection.
Virus Management					
<ol style="list-style-type: none"> Control vectors e.g. aphids, whiteflies, thrips Sanitise pruning and picking equipment Use resistant varieties, if available 					

Discard this table if a more up-to-date table is available.

*Prevent resistance by rotating between different chemical groups. (FRAC Chemical groups can found at [CropLife Australia | Resistance Management](#)).

Or enter into web browser:

<https://www.croplife.org.au/resources/programs/resistance-management/>

Where to get more information:

1. Australian Pesticide & Veterinary Medicines Authority (APVMA) website: www.apvma.gov.au for current use permits, chemical residue limits, chemical recalls and reviews.
2. Agricultural chemical companies and their distributors.
3. <http://www.croplifeaustralia.org.au/industry-stewardship/resistance-management>

How to reduce excess chemical residues and safe use of chemicals in my crop:

- Use only registered chemicals.
- Apply at the label or permit rate following correct calibration of equipment.
- Follow the withholding period.
- Follow all other directions on the label/permit and the Material Safety Data Sheets (MSDS).

Always read the label

Users of agricultural or veterinary chemical products must always read the label and any permit, before using the product, and strictly comply with the directions on the label and the conditions of any permit. Users are not absolved from compliance with the directions on the label or the conditions of the permit by reason of any statement made or not made in this publication.

Not all registered chemicals are listed in the table. This table is to be used as a guide only and not a recommendation. The product trade names in this publication are supplied on the understanding that no preference between equivalent products is intended and that the inclusion of a product name does not imply endorsement over any equivalent product from another manufacturer.

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