mirius™
global hygiene solutions

MADE IN BRITAIN

Omnicide™

Powerful disinfection for enhanced biosecurity



Mirius™, the Manufacturer of Omnicide

Mirius is a UK market leader in the manufacture and supply of cleaning liquids, powders and tablets to suit all professional, retail and animal health cleaning and hygiene requirements.

Our animal hygiene solutions help to safeguard the welfare of animals by preventing disease, helping to ensure a safe food supply for people worldwide whilst protecting the livelihoods of those growing, raising and producing it.

For over 30 years, farmers worldwide have trusted Omnicide to deliver reliable, high-level disinfection. Its broad-spectrum formula is designed to maximise the synergistic action of glutaraldehyde and quaternary ammonium compounds, providing proven efficacy where it counts.

Omnicide is versatile in its applications, suitable for use across all types of poultry and livestock premises. The formulation is designed to overcome common challenges such as organic matter and hard water and when used in a designed protocol with Virucidal WP, any risks of acquired pathogen resistance can be minimised. Virucidal WP is a fast-acting disinfectant containing a stabilised blend of peroxygen compounds, surfactant and organic acid.



Why choose Omnicide?

Exceptional Performance:

- Proven broad spectrum activity – works against bacteria, viruses, fungi and moulds with an impressive testing portfolio
- Proven residual activity (over 7 days)
- Fast-acting
- Non-corrosive to most surfaces at recommended dilutions
- Proven effective in the presence of organic matter
- Effective in hot and cold conditions
- Performs in hard and soft water areas
- Works on semi-porous and hard surfaces
- Foams on application to increase contact time on surfaces to maximise disinfection

Globally Trusted and Approved:

- Defra-approved (tested at 4°C and in hard water) against FMD, SVD, Diseases of Poultry and General Orders
- Approved and recognised by governing bodies worldwide

Active Ingredients:	Glutaraldehyde and Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))
Appearance:	Brown liquid
Fragrance:	Sweet
Pack sizes:	1L, 5L, 25L, 200L & 1000L

How to use Omnicide

To use Omnicide safely, wear eye protection, suitable respiratory protection, gloves and body/clothing protection. Drivers moving through vehicle disinfection should keep windows closed. Always follow safety guides and refer to the Safety Data Sheets (SDS) kept at any location where the product is applied.

Clean & prepare for disinfection

Disinfectants perform most effectively on a clean, dry surface. Any biosecurity hygiene programme should aim to reduce the microbial load before applying a disinfectant.

1. Remove all birds/livestock from the building.
2. Remove organic matter from the building and away from the farm and keep covered.
3. Sweep all dust and material from beams, air inlets, fan shafts etc. Start at the top of the building and work downwards to the floor and from one end of the building to the other.
4. Presoak all surfaces and equipment with water. Apply a detergent such as OmniClean™ or OmniGel™ , ideally through a foaming lance. Starting furthest away from the main door, apply the detergent from floor level upwards.
5. Leave to soak for at least 15 minutes. Wash with clean water under pressure. Start at the roof and work down to the floor and from the back of the shed to the door.
6. Allow surfaces to dry, then you're ready to apply Omnicide.

Farm conditions vary. This programme is designed as a guide. Please consult your distributor or Mirius technical contact for individual requirements.

Hard surfaces

Application	Dilution	Instructions
Walls, floors, and equipment	1:100 - 1:200 (depending on pathogen/disease challenge)	Apply Omnicide to precleaned, dry surfaces as the final disinfection step. Use at low pressure and use a foaming lance to give a light foam for longer contact time and visible coverage. Allow surfaces to dry. For feed contact surfaces, rinse before leaving to dry.
Boot bath	1:100	Use an appropriate container in a ventilated space, preferably covered to protect the disinfectant solution from rain/dust and UV light from the sun. The prepared Omnicide solution should be changed every 2 -3 days or when noticeably contaminated. Always clean footwear to remove organic soiling before stepping into the boot bath.
Vehicles	1:100 - 1:200 (depending on pathogen/disease challenge)	Apply Omnicide through an automated spraying system. All vehicles should pass through a HACCP (hazard analysis critical control point) disinfection point when entering any farm or hatchery premises. When prepared at the recommended dilution, Omnicide is regarded as non-corrosive to most hard surfaces. Operators should keep vehicle windows closed when passing through the spray. For manual applications, with a mobile high-pressure system, operators must wear appropriate PPE.

Fumigation

Application	Dilution	Instructions
Aerial misting	1:9	Use a fine misting machine to apply the solution at the rate of 9 litres per 1000m^2 of floor space. Omnicide does not need the addition of a fogging agent.
Thermal fogging	1:4	Using a thermal fogging machine, apply the solution at the rate of 9 litres per 1000m^2 of floor space. Omnicide does not need the addition of a fogging agent.

Specialist Applications

Litter

Omnicide can be sprayed onto the litter (wood shavings, chopped straw, rice husks etc.) to give a final disinfection. Apply Omnicide through a sprayer at a dilution of 1:125 lightly wetting the litter. Do not soak.

Hatcheries

Strict biosecurity and cleanliness should always be observed in the hatchery. Omnicide is an ideal disinfectant for hygiene critical areas within the hatchery from egg storage, setters, hatchers, chick handling areas and despatch. After thoroughly cleaning areas, Omnicide should be applied at low pressure to surfaces at a dilution of 1:125.

Fertile hatching eggs

Minimising microbial contamination at the point of setting eggs is essential. It not only supports the development of strong, healthy chicks but also helps prevent eggs from exploding in machines, which can contaminate others. To reduce this risk, eggs should be disinfected as soon as possible after laying and ideally before they begin to cool.

Omnicide is suitable for use via dipping, spraying or misting, and can also be applied using ultrasonic or centrifugal fogging machines. If you're using a fogging machine, speak to your distributor or technical contact at Mirius for guidance on the correct application method.

Slaughterhouses

Following the use of a high quality detergent, Omnicide is an ideal disinfectant choice for slaughterhouses. It can be applied to all surfaces including shackles, at a dilution of 1:150 at low pressure. The surfaces should be rinsed with potable water after 30 minutes.

Quantities of Omnicide needed for animal housing

Surface area to be disinfected (square feet/square metres)	Omnicide dilution rate in water	Volume of Omnicide to dilute for disinfecting non-porous surfaces. Apply 100ml of diluted Omnicide per square metre of surface.	Volume of Omnicide to dilute for disinfecting semi-porous surfaces. Apply 300ml of diluted Omnicide per square metre of surface.	Total volume of Omnicide required to disinfect 1161 square metres of non-porous surface.	Total volume of Omnicide required to disinfect 1161 square metres of semi-porous surface
5000/1161	1:50	2ml	6ml	2.35	7.00
5000/1161	1:100	1ml	3ml	1.15	3.48
5000/1161	1:150	0.66ml	2ml	0.77	2.35
5000/1161	1:300	0.33ml	1ml	0.38	1.16

For areas larger than 1161 square metres, calculate the quantity of Omnicide to be diluted as multiples of that required for 1161 square metres.

Omnicide presentations and variations

Omnicide is available in 1, 5, 25, 200 and 1000 litre containers. Fragrance-free and/or dye-free options are also available.



Testing Profile

Omnicide has been tested against more than 70 strains of bacteria in laboratories around the world. The strains tested include many of the most significant pathogens for poultry, ruminants and companion animals.

Bacteria	Disease	Dilution
Chlamydia psittaci	Pneumonia / Abortion / Serositis	1:1000
Proteus mirabilis	Urinary tract infection	1:200
Pasteurella multocida	Polyarthritis, Sepsis	1:3200
Escherichia coli	Colibacillosis	1:5000
Erysipelothrix rhusiopathiae	Erysipelas	1:6000
Pseudomonas aeruginosa CNCM A22	Sporadic abortion, Sepsis	1:2000
Pseudomonas aeruginosa ATCC15442	Respiratory tract infection	1:400
Mycoplasma gallisepticum	Chronic respiratory disease	1:1600
Listeria monocytogenes	Listeriosis, Abortion	1:200
Staphylococcus aureus ATCC 6538	Respiratory tract infection, Sepsis, Synovitis	1:1500
Staphylococcus aureus CNCM 53154	Mastitis, Synovitis	1:5000
Enterococcus faecalis CNCM 5855	Various infections	1:5000
Mycoplasma gallisepticum	Infectious sinusitis in turkeys	1:1600
Mycoplasma synoviae	Synovitis	1:1600
Pasteurella multocida	Fowl cholera	1:3200
Salmonella enterica	Enteritis	1:400
Salmonella enteritidis 10 strains	Zoonotic enteritis	1:150
Shigella spp.	Shigellosis/Dysentery	1:2000

Viruses are a major health and economic threat to farm production; Omnicide has been tested and proven effective against more than 30 of the most prevalent viruses.

Family	Virus	Disease	Dilution
Enveloped viruses	Vaccina virus	Respiratory disease	1:1000
Orthomyxoviridae	H1N1	Influenza	1:400
Adenoviridae	Aviadenovirus	Egg drop syndrome	1:500
Picornaviridae	Avian Encephalomyelitis Virus	Avian encephalomyelitis (AEM)	1:100
Poxviridae	Avipox virus	Fowl pox	1:150
Herpesviridae	Herpesvirus	Infectious laryngotracheitis /Marek's disease	1:1000
Birnaviridae	Infectious Bursal Disease Virus	Gumboro, Infectious bursal disease (IBD)	1:400
Orthomyxoviridae	Influenza A Virus H5N1	Avian (bird) influenza (AI)	1:175
Paramyxoviridae	Newcastle Disease Virus	Newcastle disease	1:400
Reoviridae	Reovirus	Tenosynovitis / Viral arthritis	1:150
Paramyxoviridae	Turkey Rhinotracheitis Virus	Swollen head syndrome	1:150
Rotaviridae	Rotavirius	Avian rotavirius	1:100

Omnicide has been proven efficacious against pathogenic fungi.

Micro-organism	Disease	Dilution
Aspergillus fumigatus	Aspergillosis	1:200
Aspergillus flavus	Aflatoxin producer	1:300
Candida albicans	Opportunistic infections	1:200

DEFRA testing

- Tested at 4°C under high organic loads
- Tested in hard water conditions (400ppm)
- Approved by the UK Government for use in notifiable disease outbreaks for complete eradication on infected sites

Type	Micro-organism	Disease	Defra dilution rate
FMD Orders	FMDv	Foot & Mouth Disease	1:60
SVD Orders	SVDv	Swine Vesicular	1:100
DoP Orders	Newcastle Disease virus	Diseases of Poultry	1:90
General Orders	Salmonella enteritidis	Diseases of Animals - various	1:45

https://disinfectants.defra.gov.uk

EN standard tests

Pathogen (s)	EN Test	Pass / Fail	Concentration %	Time (mins)	Temp	Conditions
Vaccinia Virus VR-1549 Elstree Strain (P6)	EN 14476:2013 + A2:2019	PASS	1:1000 (0.1%)	5	20°C	Clean
P. aeruginosa; E. coli; S. aureus; E. hirae	EN 1276 2009	PASS	1:1000 (0.1%)	5	20°C	Clean
H1N1 Influenza A VR-1469/MCDK	EN 14476:2013 + A2:2019	PASS	1:400 (0.25%)	5	20°C	Clean
Bovine Enterovirus Type 1	EN 14675:2015	PASS	1:100 (1.0%)	30	10°C	Clean
S. aureus; E. hirae; P. aeruginosa; P. hauseri	EN 1656:2019	PASS	1:200 (0.50%)	30	20°C	Low Soil
Candida albicans DSM 1386	EN 1657:2016	PASS	1:200 (0.50%)	30	20°C	Low Soil
Newcastle Disease Virus	EN 14675:2015	PASS	1:400 (0.25%)	30	10°C	Low Soil
Gumboro Disease Virus	EN 14675:2015	PASS	1:200 (0.50%)	30	10°C	Low Soil
Swine Versicular Disease Virus	EN 14675:2015	PASS	1:100 (1.00%)	30	10°C	Low Soil
Foot and Mouth Disease Virus	EN 14675:2015	PASS	1:80 (1.25%)	30	10°C	Low Soil

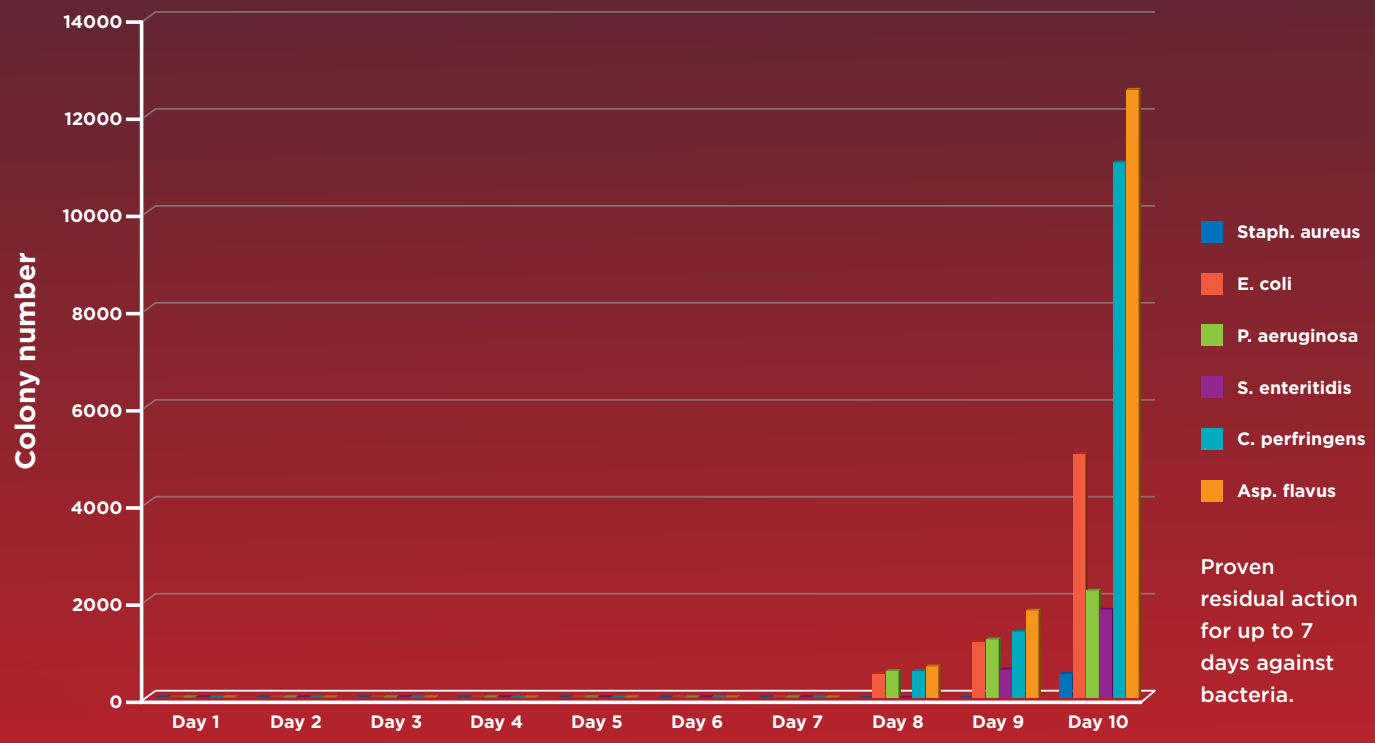


Residual Action

Testing carried out at University de San Marcos, Lima, Peru

Tested against 6 pathogens	Omnicide dilution rate	Exposure time tested
• Staphylococcus aureus • Escherichia coli • Pseudomonas aeruginosa • Salmonella enteritidis • Clostridium perfringens • Aspergillus flavus	1:200	5 minutes

Microbial colony counts after 5 minutes exposure to Omnicide treated surface.



Proven residual action for up to 7 days against bacteria.

Why Omnicide?

- Powerful broad spectrum disinfectant
- Long history of proven results and comprehensive testing portfolio
- Proven residual action of over 7 days against bacteria and viruses
- Reliable for use as a routine disinfectant
- Effective in hot and cold conditions
- Powerful to use when there is a high risk of disease

Use biocides safely. Always read the label and product information before use.

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Manufactured in the UK by Mirius
(Coventry Chemicals Limited), Woodhams Road,
Siskin Drive, Coventry CV3 4FX

T: +44 24 76 639739 | www.mirius.com