## Scotmas Group

Purify • Protect • Perform

# Cidox



### **Chlorine Dioxide Disinfection Tablets**

#### **TECHNICAL DATA SHEET**

#### Description

Cidox uses the power of ClO₂ to make a high level sporicidal disinfection solution that is more powerful, yet uses 10 times less chemicals than equivalent chlorine tablets or bleach. Provided as a safely packaged, single use tablet, Cidox is dropped into the required quantity of water of room temperature to make a powerful disinfection solution that can be used in the most challenging applications. Cidox solutions are less corrosive than equivalent chlorine or peroxide disinfectants, whilst providing sporicidal, fungicidal, bactericidal and viricidal effectiveness when tested against the most challenging European Standards.

Cidox<sup>m</sup> 300 can be used as a general area disinfectant and in the following areas;

- Agriculture: Disinfectant, equipment sterilisation
- **Disaster response**: Eliminating mould and mildew from floods and damaged areas
- **Food processing**: Surface and utensil sterilisation, washing fruit, vegetables and utensils
- Healthcare: General disinfection use in healthcare areas including the cleandown of hard surfaces, mattress covers and walls / floors
- Laboratory: Equipment sterilisation
- Health spas: Sterilisation of equipment and service areas

#### **Active Ingredient**

Chlorine Dioxide ( $ClO_2$ ) has unrivalled disinfecting power, with lower corrosion rates, greater selectivity to target biological contaminants, and significantly fewer environmental side effects compared to bleach and chlorine tablets. It is a fast-acting, highly convenient, and more accurate alternative to liquid bleach and chlorine tablets requiring a lower dose rate.

#### **Characteristics**

Active Ingredient	Chlorine Dioxide
Usage Scenario	PT2 Disinfectants and algaecides not for direct application to skin PT3 Veterinary hygiene PT4 Food and feed area
	PT11 Preservatives for liquid cooling and processing systems PT12 Slimicides
CAS Number	N/A
Colour	Off-White
Odour	Slight Chlorine
Solubility in Water	Soluble
рН	2.5 - 4.5

#### **Features and Benefits**

- More effective fast acting disinfection, more powerful than chlorine
- Easier to Handle No mixing of powders or liquids and no need to store different chemicals
- Reduced Environmental Hazards does not damage drainage systems due to the discharge of concentrated chlorine or peroxide disinfectants

#### **Regulatory Compliance**

Cidox tablets are intended for use in accordance with the terms of the EU Biocidal Product Regulation (BPR, Regulation (EU) 528/2012). Approved for sale in the UK. The product is labelled in accordance with the Classification, Labelling and Packaging (CLP) Regulation ((EC) No 1272/2008).

#### Instructions for Use

Dissolve tablets in the volume of water stated on the dilution table to achieve the required concentration. Specific Instructions:

- Add one Cidox tablet to 25 litres of water for use as a general area disinfectant.
- For high-level sterilisation of instruments and utensils in laboratories and food processing environments add one tablet to 3 litres of water.
- Add one tablet to 6 litre to make a disinfecting solution suitable for spot and high-level spray disinfection applications.

#### Safe Handling and Storage

Store in original container. Keep tightly closed in a cool dry place. Use biocides safely. Always read the label and product information before use.

#### Safety Data Sheet

For information on safe handling, a safety data sheet containing additional data for Cidox is available on request.

Target	Surface	Tablets	Litres	Concentration in ppm Contact Tin		Ct in mg-min/l
	Surrace	Tublets	Litites	concentration in ppin	contact mile	0011116
Bactericidal	Clean	1	4	75	1 min	75
	Dirty	1	3	100	5 min	500
Voastisidal	Clean	1	30	10	1 min	10
reasticidai	Dirty	1	3	100	5 min	500
Fungicidal	Clean	1	3	100	5 min	500
	Dirty	1	0.6	500	5 min	2500
Mycobactericidal	Clean	1	6	50	5 min	250
	Dirty	1	1.2	250	5 min	1250
Virucidal	Clean	1	4	75	5 min	375
Sporicidal	Clean	1	3	100	5 min	500
	Dirty	1	1.2	250	5 min	1250

#### **DILUTION TABLE**

#### **BIOCIDAL EFFICACY**

Test Method	Target	Test Organisms	Ct (mg-min/L)	Test Condition	Log Reduction Required*	Result (log reduction)	Test Reference
EN1276 Bacter		P. aeruginosa	50	Clean	>5	>5.17	
	Bacteria	S. aureus	50	Clean	>5	>5.41	0512B
		E. hirae	50	Clean	>5	>5.13	

Test Method	Target	Test Organisms	Ct (mg-min/L)	Test Condition	Log Reduction Required*	Result (log reduction)	Test Reference
EN1276 Ba		E. coli	30	Clean	>5	>5.52	0512B
	Bacteria	L. pneumophila	50	Clean	>5	>5.03	
		P. aeruginosa	75	Clean	>5	>5.22	-
		S. aureus	75	Clean	>5	>5.15	
		E. hirae	75	Clean	>5	>5.17	
		E. coli	75	Clean	>5	>5.15	
EN12727	Pactoria	MRSA	75	Clean	>5	>5.15	SC016H-
LINIS/Z/	Bacteria	P. aeruginosa	500	Dirty	>5	>5.29	2005/2
		S. aureus	250	Dirty	>5	>5.32	
		E. hirae	500	Dirty	>5	>5.25	-
		E. coli	250	Dirty	>5	>5.28	
		MRSA	500	Dirty	>5	>5.25	
	Bacteria	P. aeruginosa	500	Clean	>5	>5.19	SC016H- 2005/3
		S. aureus	250	Clean	>5	>6.10	
EN14561		P. aeruginosa	1250	Dirty	>5	>5.98	
		S. aureus	1250	Dirty	>5	>6.10	
		E. hirae	1250	Dirty	>5	>6.19	
	Yeast	C. albicans	225	Clean	>4	>4.22	SC016H-
EN1650	Fungi	A. brasiliensis	1125	Clean	>4	>4.02	1909/1
	Yeast	C. albicans	10	Clean	>4	4.05	SC016H- 2005/3
EN13624		C. albicans	500	Dirty	>4	>4.10	
	Fungi	A. brasiliensis	500	Clean	>4	>4.17	
		A. brasiliensis	2500	Dirty	>4	>4.21	
EN13697	Bacteria	P. aeruginosa	200	Clean	>4	>5.69	SC016H- 2005/2
		S. aureus	250	Clean	>4	>5.23	
		<i>E. hirae</i>	200	Clean	>4	>6.32	
		E. coli	125	Clean	>4	>5.37	
		P. aeruginosa		Dirty	>4		

Test Method	Target	Test Organisms	Ct (mg-min/L)	Test Condition	Log Reduction Required*	Result (log reduction)	Test Reference
В		S. aureus		Dirty	>4		SC016H- 2005/2
	Bacteria	E. hirae		Dirty	>4		
		E. coli		Dirty	>4		
EN13697	Veest	C. albicans		Clean	>3		
	reast	C. albicans		Dirty	>3		
	E	A. brasiliensis		Clean	>3		
	Fungi	A. brasiliensis		Dirty	>3		
	Myco- bacteria	M. avium	125	Clean	>4	>4.49	SC016H- 2005/3
EN14249		M. terrae	250	Clean	>4	>6.31	
EN14348		M. avium	1250	Dirty	>4	>5.19	
		M. terrae	1250	Dirty	>4	>5.24	
	Virus	Poliovirus-1	375	Clean	>4	>5.67	SC016H- 1909/1
EN14476		Adenovirus-5	375	Clean	>4	>5.5	
		Murine norovirus	375	Clean	>4	>4	
EN13704	Fungal Spore/ Bacterial Spore	C. difficile	500	Clean	>3	>3.08	SC016H- 2005/3
		B. subtilis	375	Clean	>3	>3	SC016H- 1909/1
		B. cereus	500	Clean	>3	>3.51	SC016H- 2005/3
		C. difficile	1250	Dirty	>3	>3.05	
		B. cereus	1250	Dirty	>3	>3.23	

**EN1276:2010** Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.

EN13727 Quantitative suspension test for the evaluation of bactericidal activity in the medical area.

**EN14561:2006** Quantitative carrier test for the evaluation of bactericidal activity of instrument disinfectants intended for use in the medical area.

*EN 1650:2008+A1:2013* Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.

EN13624: Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area.

**EN 13697:2015** Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of disinfectants used in food, industrial, domestic and institutional areas.

**EN 14348:2005** Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants.

**EN 14476:2013+A1:2015** Quantitative suspension test for the evaluation of virucidal activity of disinfectants intended for use in the medical area.

**EN 13704:2018** Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas.

\* 4 log reduction = 99.99%. 5 log reduction = 99.999% etc.