

Technical data sheet

Description

MILLER 25[®] is a technical grade stabilized hydrogen peroxide disinfectant boosted with silver ions which form a radical fluid architecture capable of destroying a broad spectrum of microorganisms including pathogenic bacteria, viruses, yeast fungi and protozoa.

MILLER 25[®] is especially formula for general disinfection and fogging in clean and sterile area in pharmaceutical industries, mills, farmhouses, breeding farms and plants in general.

MILLER 25[®] dynamic synergistic formula releasing highly reactive free radicals that immediately begin to attack the cell membrane of the targeted microorganism. This weakens the cell and allows the silver ions to enter. Together, the silver and hydrogen peroxide destroy the microorganism by attacking and disrupting the cell membrane, binding to the enzymes causing denaturation this incapacitates the energy source of the cell causing rapid death and binding to the DNA to stop replication. During the process, hydrogen peroxide decomposes into water and oxygen gas, which creates a highly toxic environment for anaerobes. This completes the active disinfection process.

Properties

FORM	Clear colorless liquid
ODOUR	Odorless
pH	1.2
Density	1.1 kg/dm ³
Boiling point	114°C at 1013 mill bar
Freezing point	-51°C

Application

- Our application instructions both oral and written are based on a number of tests. Our advice is given to the best of our existing knowledge but is not binding insofar as the product application and the storage conditions lie beyond our direct control.
- Prior to sanitization, remove gross particulate matter with water flush, then wash equipment with cleaning agent and follow with a potable water rinse.
- MILLER 25[®] solutions non corrosive to 304, 316, stainless steel, aluminum surfaces and Compatible with most plastic and rubber materials used in processing operations when used according to concentrations listed on the product label.
- For general disinfection apply diluted (2-5%), for fogging apply diluted (5-10%) contact time (5-30 min) according to load of contamination, for SIP sanitation & water treatment plants disinfection apply diluted (0.5-1%) contact time (10-40 min) according to load of contamination can be reached to 4-8 hours (mostly overnight) in case of biofilm degradation. Rinse membranes thoroughly with purified water free of pathogenic bacteria.
- Other indicate by following tables.

Benefits

- Registered from BAuA "The Federal Institute for Occupational Safety and Health".
- Active ingredient recommended for hygiene applications according to FDA "Food and Drug Administration"
- Compatible to CCDC "Chinese Center for Disease Control and Prevention".
- Compatible to CDC "Center of Disease Control and Prevention".
- Compatible to EPA registered disinfecting fogging formula.
- Effectiveness and long-term effect are guaranteed even at high water temperatures.
- Has no toxic effect according to Safety evaluation from "National Research Center of Egypt".
- Achieve bactericidal efficiency evaluation on Salmonella & E-Coli from "Central Public Health Laboratories - Ministry Of Health Of Egypt".
- Achieve evaluation of bactericidal and fungicidal activity "SGS INSTITUT FRESENIUS GmbH"

Shelf life

Three years when in unopened containers.

Storage

Store in original closed containers or (where applicable) in approved bulk tank, away from sunlight and extremes of temperature.

Package

Available in 5-25-30-65 L Gallon.

Pharmaceutical and Cosmetics Industry (Production, Laboratory, etc.) Surface and content disinfection, preservation	Treatment of service water	70-100 ppm
	floors, walls, ceilings, drains conveying and filling installations equipment, machines, tools	%2-5
	Water treatment plants, Pipelines, CIP and reverse osmosis	%0.5-1
	Fogging "Air disinfection"	%5-10
	transport containers and vehicles, conveying installations	%2
	working clothes, laundry, disinfection of hands	%0.5-1
	cooling systems, air washing devices, humidifiers, ventilation shafts	200-400 ppm

Swimming Pools Private and public swimming pools, hotel, children and thermal pools, spa baths, whirlpools, saunas, fitness centers, solariums.	water disinfection	70-100 ppm
	hot and cold water (Legionella)	100-200 ppm
	floors, walls, ceilings changing rooms solariums, saunas, deck chairs, bathrooms, wash-basins, toilets	%2-5
	air washing devices, humidifiers, ventilation shafts	100-200 ppm

Medical sector Medical, dental and veterinary surgeries	hot and cold water (Legionella)	50-100 ppm
	drinking water	5-30 ppm
	floors, walls, ceilings working areas, equipment, tools	%2-5
	ambulances, transport vehicles, wheelchairs ,laundry	%2
	beds, blankets, carpets instruments, working clothes, laundry, disinfection of hands	%1-2
	Fogging "Air disinfection"	%5-10
	cooling systems, air washing devices, humidifiers, ventilation shafts	200 ppm