

SCHUTZENCIDE-MT is a broad spectrum biocidal amine which can be used in various industries. It is highly effective against gram positive and gram negative bacteria and it exhibits virucidal & fungicidal efficacy. It is a fast acting preservative with long term protection.

SCHUTZENCIDE-MT is Quaternary compound free, aldehyde free biocidal amine having broad spectrum efficacy against bacteria, viruses & fungal attack

SCHUTZENCIDE-MT offers quick germ count reduction as well as Long-term protection at a significantly Low concentration



PROPERTIES

PARAMETER	SPECIFICATIONS
Appearance	Clear Liquid
pH	6-7
Composition	Biocidal amine
Density	0.967g/mL
Freeze thaw stability	Good

FEATURES

- ✓ **SCHUTZENCIDE-MT** is highly effective against viruses such as Coronavirus, Herpesviruses, Orthomyxovirus, Paramyxovirus, Bunyavirus, Retrovirus.
- ✓ It is **anti-fungal**
- ✓ It is **highly effective** against gram positive and gram negative bacteria.
- ✓ The active ingredient is compliant with **BPR PT-2, PT-3, PT-4, PT-6, PT-11, PT-12 and PT-13.**
- ✓ It is safe for food contact surfaces according to **BPR PT-4.**
- ✓ It is **not carcinogenic.**
- ✓ It is **not mutagenic or cytotoxic.**
- ✓ There is **no Maximum Residual Limit (MRL).**
- ✓ It is **aldehyde-free.**
- ✓ It is **quaternary compound-free.**



SCHUTZENCIDE-MT exhibits synergistic combination with other preservatives such as benzisothiazolone (BIT), methylisothiazolone (MIT)



The active ingredient in SCHUTZENCIDE-MT has a rapid action as well as offers a long-term protection ensuring a well preserved finished product.



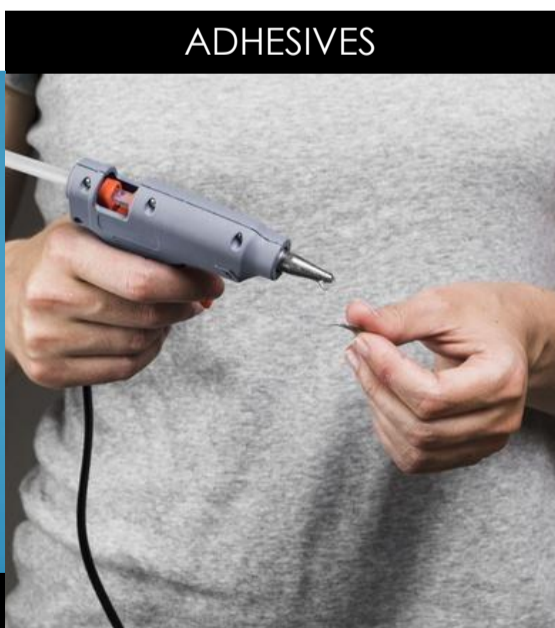
SCHUTZENCIDE-MT offers higher sustainability in formulations.



SCHUTZENCIDE-MT is effective at low dosage levels



PAINTING & COATING



ADHESIVES



HOME CARE



METAL WORKING

APPLICATION

Recommended recipe/dosage:

PRODUCT NAME	TYPE OF INDUSTRY/PRODUCT	RECOMMENDED DOSAGE (%wt/wt)
SCHUTZENCIDE-MT	Household Products	0.15-0.35
	Paint & Coating	0.4-0.8
	Adhesives	0.4-0.8
	Polymer Dispersions	0.4-0.8
	Metal Working	0.4-0.8



Test Method: ASTM E2315 - Assessment of Antimicrobial Activity using Time-Kill procedure

SCHUTZENCIDE-MT : Test Concentration: 0.5% (w/w)

TEST ORGANISM	PARTICULARS	MICROBIAL COUNTS	20-21/10074/1
Staphylococcus aureus (ATCC 6538)	CONTROL- Test organism (Staphylococcus aureus)	Counts in cfu/ml	2.12 X 10 ⁸
		Log Values	8.3263
	TEST- Test organism (Staphylococcus aureus) + test sample	Counts in cfu/ml	10
		Log Values	1.00
	Log Reduction		7.3263
	Percentage Reduction		99.9999953
Pseudomonas aeruginosa (ATCC 9027)	CONTROL- Test organism (Pseudomonas aeruginosa)	Counts in cfu/ml	5.90 X 10 ⁷
		Log Values	7.7709
	TEST- Test organism (Pseudomonas aeruginosa) + test sample	Counts in cfu/ml	10
		Log Values	1.00
	Log Reduction		6.7709
	Percentage Reduction		99.9999831
Escherichia coli (ATCC 10536)	CONTROL- Test organism (Escherichia coli)	Counts in cfu/ml	6.55 X 10 ⁷
		Log Values	7.8162
	TEST- Test organism (Escherichia coli) + test sample	Counts in cfu/ml	8.63 X 10 ²
		Log Values	2.94
	Log Reduction		4.8802
	Percentage Reduction		99.9987
Salmonella typhimurium (ATCC 23564)	CONTROL- Test organism (Salmonella typhimurium)	Counts in cfu/ml	1.71 X 10 ⁹
		Log Values	9.2330
	TEST- Test organism (Salmonella typhimurium) + test sample	Counts in cfu/ml	10
		Log Values	1.00
	Log Reduction		8.2330
	Percentage Reduction		99.9999994

ASTM E1052 - Efficacy of Antimicrobial Agents Against Viruses in Suspension (using MS2 Bacteriophage)

SCHUTZENCIDE-MT: Test Concentration: 0.5% (w/w)

TEST ORGANISM	PARTICULARS	MICROBIAL COUNTS	20-21/10074/1 Conc.3%	
MS2 Bacteriophage (ATCC-15597-B1)	CONTROL- Test organism (MS2 Bacteriophage)	Counts in pfu/ml	1.28 X10 ⁸	
		Log Values	8.1072	
	TEST- Test organism (MS2 Bacteriophage) + test sample	Counts in pfu/ml	1.38 X 10 ⁶	
		Log Values	6.14	
	Log Reduction			1.9673
	Percentage Reduction			98.92

Packing: 50 Kg/Drum, 5 Kg/Jerry can, 1Kg/Bottle



IMPORTANT NOTICE TO USER:

Technical Information: The technical information, recommendations and other statements in this document are provided on basis of tests and/or experiences that SCHUTZEN believes as accurate and dependable, But the accuracy and reproducibility is not guaranteed.

PRODUCT USE:

Several factors are beyond SCHUTZEN'S control and uniquely within user's knowledge and control can affect the use and performance of a SCHUTZEN product in a particular application. Given the variety and variability several factors that can affect the use and performance of a SCHUTZEN product, user is solely responsible for evaluating the product to determine whether it serves the purpose and method of application.

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