

Technical Data Sheet

Clariant Disinfectant actives



Exactly your chemistry.

Nipacide PX.

Chemical name: 4-Chloro-3,5-Xylenol (PCMX)

Description;

Nipacide PX is a low toxicity antiseptic/disinfectant active. Nipacide PX is effective against a wide range of microorganisms including gram positive and gram negative bacteria, yeast and fungi.

Applications;

Nipacide PX is recommended for use as the active agent in formulated disinfectants for general purpose disinfection. Nipacide PX can also be used in antibacterial hand-soaps

Use levels;

Nipacide PX should be evaluated in formulated disinfectants at levels between 3% and 5%, which in final use would further be diluted typically 1:40 with water, depending on the final application area.

Microbiological data;

Nipacide PX has a broad spectrum of activity which is demonstrated by the following MIC data.

MIC Levels	Organism	MIC (ppm)
	Bacteria	
	<i>Pseudomonas aeruginosa</i>	1000
	<i>Salmonella enteritidis</i>	100
	<i>Proteus vulgaris</i>	100
	<i>Escherichia coli</i>	50
	<i>Staphylococcus aureus</i>	10
	Fungi	
	<i>Aspergillus niger</i>	200
	<i>Penicillium chrysogenum</i>	1000
	<i>Alternaria solani</i>	200
	<i>Mucor racemosus</i>	1000
	Yeast	
	<i>Candida albicans</i>	50
	<i>Saccharomyces cerevisiae</i>	50



Formulation Recommendations;

Nipacide PX is recommended for use with castor oil soaps or anionic surfactants. Nipacide PX should not be used with cationic or nonionic surfactants as these tend to decrease the stability of formulations, resulting in lowered activity.

Disinfectant Formulations;

Nipacide PX Disinfectant %(w/v)

Nipacide PX	4.00
Pine oil (70%)	5.00
Isopropyl alcohol	25.00
Castor oil soap (30%)	25.00
Water	41.00

Alternative Nipacide PX Formulation

Nipacide PX	5.00
Terpineol BP	10.00
Alcohol (95%)	20.00
Castor oil Soap (30%)	6.30
Potassium Hydroxide	13.60
Oleic acid	7.50
Water	37.60

Nipacide PX disinfectants are recommended for general disinfection of;

- Floors and Walls
- Sinks
- Bathrooms
- Urinals
- Waste receptacles
- Locker rooms

Antimicrobial Hand-soap (%W/V)

Nipacide PX	3.00
Hexylene Glycol	3.00
Alpha olefin sulphonate	7.00
Cocoamidopropyl betaine	5.00
Water	82.00

Dissolve Nipacide PX in Hexylene glycol. Mix alpha olefin sulphonate and cocoamidopropyl betaine and add to chloroxylenol mixture. Add water and adjust pH to 5.6-5.8.

Chemical compatibility;

Nipacide PX should not be used in formulations containing cationic, nonionic surfactants or unsaturated soaps. The compatibility of Nipacide PX should be checked and evaluated before use

Clariant Technical Service;

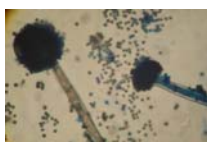
Clariant technical service is available to assist customers in the determination of the optimum use level of biocide required to fully protect their product. A dedicated team of microbiologists are on hand at all times to assist customers with technical enquiries relating to product protection. Full microbiological efficacy testing is available.

AVAILABLE MICROBIOLOGICAL TESTING

- **In can challenge.**
- **Dry film**
- **Chemical analysis**
- **Identification**
- **Disinfectant testing**
- **Microbiological audits**

Regulations and approvals;

EPA Approval. EPA registration number 49403-01



All information is given in good faith but without warranty. Customers should ensure that their use of the products comply with specific regulations in the relevant market