

Technical Data Sheet

NIPACIDE® CI 30 HS

CLARIANT 

Wet State Preservative for industrial water based products.

CLARIANT CHEMICALS(CHINA) LTD.

No.2,Lane 168 Linhong Road,
Changning District,Shanghai,P.R.China

COMPOSITION

Aqueous solution of 5-Chlor-2-methylisothiazolin-3-one and 2-Methylisothiazolin-3-one

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PRODUCT

PROPERTIES^{*)}

approx.

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Appearance

Blue and Green Clear Liquid

Active Content (by HPLC)

About 3.0%

pH (as such)

2.00 - 4.00

^{*)} These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

Solubility

Soluble in Water.

Storage stability

365 Days under recommended storage conditions in sealed original containers.

Description

NIPACIDE® CI 30 HS is water based, low toxicity biocide developed for the complete in-can protection of water based products. It is effective against a wide range of microorganisms including gram positive and gram negative bacteria, yeast and fungi. Microorganisms grow at a rapid rate and without use of the correct biocide, numbers can increase dramatically

Application

NIPACIDE® CI 30 HS is recommended for preservation of a wide range of applications including water based /Latex/PVA adhesives, PVA / Acrylic polymer emulsions, water based decorative paints, printing inks, metal working fluids and construction admixtures. Nipacide CI30 HS is effective against a wide range of common spoilage organisms. Thermal and pH stability for NIPACIDE® CI 30 HS is a critical consideration and it should not be used for products with pH >9 or production temperatures of >40 C.

Use Levels

The dosage required to adequately preserve the product depends on various factors including the nature and susceptibility of the product to microbial

degradation, initial microbial content in the product, processing and storage conditions. It is recommended to conduct trials for new applications to access the performance of the biocide in the product in terms of stability, compatibility and biological effectiveness.

Nipacide CI 30 HS should be evaluated in finished products at levels between 0.05% and 0.2%.

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Microbiological Data

Nipacide BIT 10 W exhibits a broad spectrum of activity which is demonstrated by the following MIC values** against some common microorganisms associated with wet-state spoilage:

<u>Organism</u>	<u>MIC (ppm)</u>	<u>Organism</u>	<u>MIC (ppm)</u>
Bacteria:		Fungi:	
<i>Pseudomonas aeruginosa</i>	200	<i>Aspergillus niger</i>	75
<i>Pseudomonas putida</i>	125	<i>Penicillium mineoluteum</i>	75
<i>Proteus vulgaris</i>	450	<i>Fusarium solani</i>	50
<i>Escherichia coli</i>	350	<i>Geotrichum candidum</i>	150
<i>Staphylococcus aureus</i>	500	Yeast:	
		<i>Candida albicans</i>	25

** MIC values should only be used for relative comparisons. Practical use concentrations are generally much higher.

Chemical Compatibility

Nipacide CI30HS is compatible with most raw materials used in the manufacture of industrial products. Nipacide CI30HS compatibility should always be checked and evaluated before use.

Clariant Technical Service

Clariant technical service staff is available to assist customers in the determination of the optimum use level of biocide required to fully protect their product. The staff is on hand to assist customers with all technical enquiries relating to product protection. Full microbiological efficacy testing is available at the Clariant Microbiology Laboratory including wet-state and dry-film challenge tests, post-treatment of contaminated products, modified diffusion tests and plant hygiene audits at customers' production facilities.

Regulatory Support

Various regulations may be applicable to our products and their possible applications to safeguard human and environmental health. These regulations may vary depending on factors like end use, country or region of use, components of products, etc. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change.

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

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application.* Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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