





Technical Data

Nipacide CI 15

General Description Nipacide CI 15 is a low toxicity biocide specifically developed

for the complete microbiological protection of water based products against bacterial and fungal spoilage in the wet state, particularly where it is to be used at high ambient temperatures.

Nipacide CI 15 is a water based liquid.

Composition Nipacide CI 15 is one of a comprehensive range of biocides

manufactured by Clariant UK Ltd. and is described chemically as a a blend of chlorinated and non-chlorinated isothiazolinones.

Typical Properties Nipacide CI 15 has the following typical properties:

Property		Analysis
Appearance:		Clear, Yellow Liquid
pH:		7.5 (@ 0.1% in water)
Solubility:	Water	Miscible
-	Oil	No
Stability:	Light	Stable
	pH range	4-9

It should be noted that the above typical properties do not constitute a specification.

Biocidal Properties Nipacide CI 15 is effective against bacteria, fungi and yeast.

Applications Nipacide CI 15 is recommended for a wide range of applications

including adhesives, polymer emulsions, fountain solutions, MWF and paint where protection against fungi and bacteria is

required in the wet state.

Use Level The recommended use level of Nipacide CI 15 to preserve most

product types is normally in the range 0.1-0.3% based on the

total weight of the finished product.

TDS-174116 Rev. 24-09-2001 GIMEX Zlin, spol. s r. o., Rybníky 552, 760 00 Zlín Tel.: 577 220 942 – 3, Fax: 577 430 587 gimex@zl inext cz

Page 1

MIC Levels

Nipacide CI 15 has a broad spectrum of activity which includes the following common spoilage organisms;

Organism	MIC (ppm)
Bacteria:	
Pseudomonas aeruginosa	400
Pseudomonas putida	250
Proteus vulgaris	900
Escherichia coli	700
Staphylococcus aureus	1100
Fungi:	
Aspergillus niger	150
Penicillium mineoluteum	150
Fusarium solani	150
Geotrichum candidum	300
Yeast:	
Candida albicans	50

Compatibility

Nipacide CI 15 is compatible with most raw materials used in microbiologically susceptible products. Compatibility of Nipacide CI 15 with the application should always be checked before use.

Laboratory Service

The Clariant UK Technical laboratories are available to assist in the determination of the optimum use level required in a specific product. This service may be of particular use where the product is known to be susceptible to microbiological contamination or that the environmental conditions of the production plant or use application are known to enhance contamination.

Storage Conditions and Containers

Storage Conditions

Nipacide CI 15 should be stored at temperatures within the range 4-40°C. Containers containing Nipacide CI 15 should not be exposed to direct sunlight. Storage conditions should also be in conformance with applicable legal, fire and insurance regulations.

Shelf Life

Under correct storage conditions the normal shelf life for this product is 12 months.

Containers

Nipacide CI 15 is available in 25kg Kegs, 200kg Drums and 1 Tonne IBC containers.

Container disposal

Prior to disposal, residual contents of containers of Nipacide CI 15 should be drained into the product to be preserved. It is likely, however, that a small quantity of Nipacide CI 15 will remain in the container and this should be deactivated and drained to waste. To ensure that containers are not reused, they should be pierced before disposal.

Handling

Where direct handling is necessitated, personnel should always wear protective clothing. This will include a rubber apron, suitable impervious full-length gloves and footwear. Protective chemical splash goggles should also be worn. For further details please refer to the Clariant UK 'Recommendations for the handling of biocides'.

Ecotoxicity

Nipacide CI 15 is biodegradable when diluted below the minimum inhibitory concentration and does not bioaccumulate.

Toxicology

Nipacide CI 15 toxicology is as follows:

Acute Oral LD₅₀(rat): 3965mg/kg

Sensitisation: Components are known sensitisers

Classification: The mixture is irritant

First Aid

Should Nipacide CI 15 be mishandled the following procedures are recommended:

Inhalation Move the exposed person to fresh air at once.

Seek prompt medical attention.

Ingestion Rinse mouth thoroughly with water. Seek

medical attention.

Skin Contact Promptly wash contaminated area with plenty

of water. Seek medical attention.

Eye Contact Promptly wash eyes with water. Seek

medical attention.

Note: For full details on first aid measures please see the Material Safety Data Sheet.

Transport

The original containers should always be used for safe storage and transport. Should it be necessary to transfer to alternative containers please contact Clariant UK Ltd..

TDS-174116 Rev. 24-09-2001 Page 3

Spillage/Disposal

Spillages of Nipacide CI 15 should be absorbed using an inert material such as vermiculite and transferred to containers for disposal. Spillages should be disposed through specialist disposal contractors and according to local regulations.

Fire/Explosion

Nipacide CI 15 is non-flammable and non-explosive.

Other Relevant Information

Regulations:

FDA21 CFR 175.105 Preservative for polymer emulsions used in

adhesives.

FDA21 CFR 176.170 Preservative for polymer emulsions used

for manufacture of paper in contact with food.

FDA21 CFR 176.180 Preservative for polymer emulsions used

for manufacture of paper in contact with food.

FDA 21CFR 176.300 Slimicide for manufacture of paper used in

food contact applications.

BGVV Rec. XIV Preservative for polymer emulsions in food

contact applications.

BGVV Rec. XXXVI Slimicide for manufacture of paper used in

food contact applications.

WGK Classification:

Other:

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.

TDS-174116 Rev. 24-09-2001