

# Technical Data Sheet

## NIPACIDE HF-I

CLARIANT CHEMICALS (CHINA) LTD  
NO.2 LANE 168 LINHONG  
ROAD, CHANGNING DISTRICT, SHANGHAI  
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Biocide for the painting coating and polymers and printing ink and adhesive and pigment and lubrication

**Composition**                      Combination of 5 – Chloro – 2 – methyl -isothiazolin – 3 - one (CIT) / 2 – Methyl –isothiazolin – 3 - one (MIT) and Formaldehyde.

### Product properties <sup>1</sup>

<b>Appearance (20°C)</b>	Liquid
<b>Colour</b>	colourless
<b>Melting point</b>	not available
<b>Active</b>	1%-2.5%
<b>Boiling point</b>	≥100°C
<b>Density at 20°C</b>	1.03 g/cm <sup>3</sup>
<b>pH</b>	3-4.5
<b>Viscosity dynamic</b>	Viscous liquid

### Profile

Nipacide HF-I is a water based, liquid biocide that is a blend of chlorinated and non-chlorinated isothiazolinones and formaldehyde specifically developed for the complete in-can microbiological protection of industrial waterbased products against bacterial and fungal spoilage in the wet state.

### Application

Nipacide HF-I is recommended for the preservation of a wide range of applications including water based adhesives, polymer emulsions, water based decorative paints, metal working fluids, sealants and tile grouts, household detergent cleaners, car care products and construction chemicals where protection against fungi and bacteria is required in the wet state. It is effective against a wide range of common spoilage organisms and can be used over a pH range 4-9 and temperature range up to 40°C.

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<sup>1</sup> These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

## Use level

Nipacide HF-I should be evaluated in finished products at levels between 0.1%-0.3%. The level of protection required will depend on many factors including the degree of contamination of raw materials and susceptibility of the final product

## Chemical compatibility

Nipacide HF-I is compatible with most raw materials used in the manufacture of industrial and decorative coatings. However it is recommended that the compatibility of Nipacide HF-I with the application 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.

## Safety

Please see Material Safety Data Sheet before handling the material.

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