

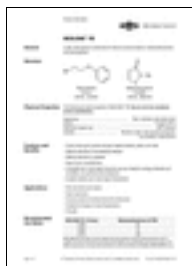
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Abstract: Based on Methylisothiazolinone and Phenoxyethanol. Features and Benefits. Activity versus ... Phenoxyethanol. 122-99-6. C. 8. H. 10. O. 2. Methylisothiazolinone. 2682-20-4. C. 4. H. 5. NOS. Typical ...

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Personal Care
 NEOLONE™ PE A Safe, Broad Spectrum Preservative for Leave-on Products
 Based on Methylisothiazolinone and Phenoxyethanol
 Features and Benefits
 Activity versus gram positive and gram negative bacteria, yeasts, and molds
 Effective alternative to formaldehyde releasers
 Effective alternative to parabens
 Ease of use in manufacturing
 Compatible with a wide range of personal care raw materials including surfactants and emulsifiers, zinc pyrithione and avobenzone
 Excellent stability over a wide range of pH (2 to 12) and temperature
 Applications
 Skin care lotions and creams
 Body moisturizers
 Suncare products (including those with avobenzone)
 Suitable for all types of rinse-off applications
 Hair gels

Chemical Identification

CTFA/INCI Name CAS Number Empirical Formula

Phenoxyethanol 122-99-6 C₈H₁₀O₂Methylisothiazolinone 2682-20-4 C₄H₅NOS**Typical Properties**

Appearance: clear, colorless to pale yellow liquid

Density: 1.10 g/ml (20°C)

pH (10% in deionized water): 4 to 6

Flash point (closed cup): 126°C (solvent)

Solubility: miscible in water, lower alcohols and glycols; low solubility in hydrocarbons

(These typical values do not constitute specifications)

Recommended Use Rates

NEOLONE PE Methylisothiazolinone

% Product At PPM

0.30% 50

0.45% 75

0.60% 100

NEOLONE PE preservative should be added as the last ingredient and at the lowest temperature (45°C if possible). Since the components of personal care formulations vary considerably and may have impact on the effect of preservatives, we urge each manufacturer to confirm the efficacy and stability of NEOLONE PE in use.

NEOLONE PE Performance in a Nonionic Body Lotion (pH 5.4)

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ROBOND™ L-330/□CR 9□-101

D.E.H. 20 -- Technical Data Sheet - Chinese

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Performance Data

Efficacy on Bacteria

Concentration Estimated CFU/g after day:

Preservative (% Product) 3 7 14 17 21 28

5 5 5 7 6

Unpreserved Control - 10 10 10 10 10 106

NEOLONE PE 0.45 102 < 10 < 10 < 10 < 10 < 10

0.60 < 10 < 10 < 10 < 10 < 10 < 10

Phenonip™ 0.3 < 10 < 10 < 10 < 10 < 10 < 10

0.7 < 10 < 10 < 10 < 10 < 10 < 10

Germaben™ II 1.0 < 10 < 10 < 10 < 10 < 10 < 10

Glydant™ Plus 0.3 < 10 < 10 < 10 < 10 < 10 < 10

B. cepacia (ATCC 17765), E. coli 8739, K. pneumoniae (ATCC 17765),

P. aeruginosa (ATCC 15442), P. aeruginosa (ATCC 9027), S. aureus (ATCC 6538),

S. epidermidis (ATCC 12228) inoculated at 0 and 14 days

Efficacy on Fungi

Concentration Estimated CFU/g after day:

Preservative (% Product) 3 7 14 17 21 28

Unpreserved Control - 105 105 104 105 105 105

NEOLONE PE 0.45 103 10 < 10 103 10 < 10

0.60 < 10 < 10 < 10 < 10 < 10 < 10

3 4 2 4 3

Phenonip 0.3 10 10 10 10 10 102

0.7 < 10 < 10 < 10 < 10 < 10 < 10

Germaben II 1.0 < 10 < 10 < 10 < 10 < 10 < 10

Glydant Plus 0.3 < 10 < 10 < 10 < 10 < 10 < 10

A. niger (ATCC 16404), C. albicans (ATCC 10231) inoculated at 0 and 14 days

Rohm and Haas typically uses a modification of the CTFA Preservative Efficacy Test Method (REFERENCE:

Determination of the Efficacy of Preservation of Non-Eye Area Water Miscible Cosmetic and Toiletry Formulations:

Collaborative Study. Machtiger et al. 2001. Journal of AOAC International Vol. 84, NO.1: 101-109).

Analytical Procedures

High Performance Liquid Chromatography (HPLC) analysis is the preferred method for determining low levels of Methylisothiazolinone. This method can be used to determine Methylisothiazolinone levels in many personal care products. If you require detailed information on HPLC methods, please contact your local Rohm and Haas sales office.

Storage

NEOLONE PE should be stored at room temperature in tightly closed original containers, protected from heat and frost.

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where products designated thereby are marketed by the Company, its subsidiaries or affiliates.

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Material Safety Data Sheets outlining safety hazards and handling methods for our products are available on request.

Rohm and Haas Co. has patent applications pending for NEOLONE PE and other similar products.

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