

PM 31 1100-88 1075

NUOSEPT[®] 145 PRESERVATIVE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND ANIMALS

DANGER

Concentrated solutions are corrosive and cause severe eye and skin damage. Do not get in eyes, on skin or on clothing. HARMFUL IF INHALED OR SWALLOWED. Precautions must include the use of eye shields, rubber gloves and protective clothing. Avoid breathing spray mist or vapor by use of a respirator. Wash thoroughly after handling.

In case of severe burns medical attention should be obtained immediately. Remove and wash contaminated clothing before reuse. Use with adequate local ventilation.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. CALL A PHYSICIAN IMMEDIATELY.

IF ON SKIN: Immediately remove contaminated clothing. Wash affected areas with soap and water. Wash contaminated clothing before reuse.

IF IN EYES: Flush with water for at least 15 minutes and get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

ENVIRONMENTAL HAZARDS

This product must not be used in any connection with feed, food or drinking water. Do not contaminate waters by cleaning of equipment or disposal of wastes.

Do not discharge into lakes, streams, ponds or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

FOR USE IN MANUFACTURING AS AN INDUSTRIAL PRESERVATIVE.

ACTIVE INGREDIENT:

Methanol [[2-(dihydro-5-methyl-3(2H)-oxazolyl)-1-methylethoxy]methoxy]methoxy]..... %

INERT INGREDIENTS.....50%

TOTAL.....100%

This product contains 4.5 lbs. active ingredient per gallon.

EPA REG. NO. 1100-88
EPA EST. NO. 8489-NJ-01

KEEP OUT OF REACH OF CHILDREN

DANGER

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. See Product Data Sheet for use directions.

ACCEPTED

SEP 07 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1100-88

HMIS RATINGS
C.A.S. No 97553-90-7

HEALTH	3
FLAMMABILITY	2
REACTIVITY	1

STORAGE AND DISPOSAL

- 1. PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal.
- 2. PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
- 3. CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
- 4. STORAGE INSTRUCTIONS:** Product should be stored in an area that is not subject to extreme temperatures. Proper protective equipment, as indicated above, should be worn when opening, transferring and using product. Close drum bungs tightly when not in use. Spill-leak procedures and additional handling information are contained in the Material Safety Data Sheet.
See side panel for additional precautionary statements.

Manufactured by:

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HÜLS AMERICA INC.

HÜLS AMERICA, INC. MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, and expressly disclaims liability for consequential or incidental damages, whether based on warranty or negligence. Buyer's sole remedy shall be refund or replacement.

Turner Place, P.O. Box 365, Piscataway, NJ 08855

Net Contents. 475 lbs 52.8 Gals.

Lot No. _____

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GENERAL DESCRIPTION

NUOSEPT 145~~MP~~ is a non-metallic, non-chlorinated liquid organic preservative recommended for use in resin emulsions, latex paint, adhesives, dispersed colors, pigment slurries, and ready-mix joint cements. When used at recommended levels, NUOSEPT 145~~MP~~ will provide antimicrobial protection to water-based systems. By preventing bacterial deterioration and the associated problems of viscosity loss, gas production, off-odors, discoloration, and coagulation, the protected composition has increased shelf life and improved product performance.

NUOSEPT 145~~MP~~ is specially formulated to offer the following advantages:

- adjusted to neutral pH range for improved compatibility
- non-yellowing
- is a mobile 50% aqueous solution
- does not discolor in conjunction with organic mildewcides
- is not temperature sensitive and can be added at any point during manufacture
- will not adversely affect physical properties of the final formulation in the wet or dry state
- has a high flash point and a low freezing point which makes storage and handling easy and trouble-free

TYPICAL PROPERTIES

NUOSEPT 145~~MP~~ exhibits the following typical characteristics:

Active Ingredient:

[[[1-Methyl-2-(5-methyl-3-oxazolidinyl)-
ethoxy]methoxy]methoxy]methanol.....

Physical Form.....	Clear, colorless to light yellow liquid
Specific Gravity (25/25°C).....	1.092-1.115
Pounds Per Gallon.....	9.1-9.3
pH.....	6.7-7.5
Freezing Point.....	<-15°C
Flash Point.....	740°F
Solubility.....	Completely soluble in water

ACCEPTED
SEP 07 1933
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 1100-88

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Nuocel Inc. • Ray-Fries Holding Inc. • Ray-Fries Inc. • Ray-Fries Alabama Inc. • Penn-Vinyl Corporation • Petroch Systems Inc. • Hüls Canada Inc.

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USE AND METHODS OF APPLICATION

NUOSEPT 145LP will protect and preserve raw materials and finished products at use concentrations of 0.05% to 0.5% based on total weight of composition. When used at the recommended level, NUOSEPT 145LP will remain effective in the unopened can or package and throughout the wet composition's useful service life without adversely affecting the physical properties of the formulation. NUOSEPT 145LP can be added at any point in the production cycle. Good operating procedure should require the incorporation of this preservative early in the manufacturing process. The point of addition will vary with the process being conducted. The only guideline to follow is that after biocide addition, the product should not be subjected to excessively high temperatures (175°F maximum).

Typical applications and recommended concentrations:

Resin Emulsions.....0.05%-0.2%

To protect and preserve resin emulsions, the recommended concentration is based on total weight of system. This level will generally prevent bacterial spoilage from occurring throughout the emulsion's useful service life, which includes transit and storage. The point of preservative addition should be in the cool-down cycle. Where added quantities of NUOSEPT 145LP are required, it can be safely post-added.

Latex Paints.....0.1%-0.3%

NUOSEPT 145LP can easily be incorporated during any phase of paint manufacture. We recommend the addition immediately after the initial charge of water. At recommended use levels, no adverse physical paint properties have been observed.

Building Adhesives.....0.05%-0.5%

Dispersed Colors.....0.1%-0.3%

Ready-Mix Joint Cements.....0.1%-0.25%

In the manufacture of the above materials, preservative addition should come just after the addition of water or similar inert solvent. This will insure good product distribution and provide antibacterial activity to the product at an early stage of manufacture.

The exact concentration of NUOSEPT 145LP required will vary with the composition to be protected and manufacturing environment. For specific recommendations, or to arrange for microbiological testing of your product to determine optimum use levels, contact your Hüls America Inc. representative.

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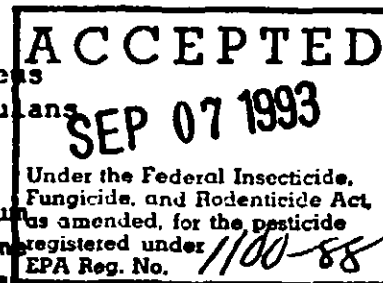
ANTIMICROBIAL ACTIVITY

NUOSEPT 145 has antimicrobial activity against a broad spectrum of microorganisms including, but not limited to, those listed below. This was established in routine laboratory testing utilizing standard microbiological techniques. The listing of various microorganisms is provided to show the broad spectrum activity of NUOSEPT 145LP and is not to be construed as a list of organisms associated with the spoilage of any water-based system.

Organism

Pseudomonas aeruginosa
Pseudomonas fluorescens
Aerobacter aerogenes
Bacillus licheniformis
Bacillus megaterium
Bacillus subtilis
Desulfovibrio desulfuricans
Escherichia coli

Proteus vulgaris
Staphylococcus aureus
Aureobasidium pullulans
Aspergillus niger
Candida albicans
Fusarium graminearum
Fusarium moniliforme
Penicillium species



In actual use, the specific inhibitory concentrations of Nuosept 145 are dependent upon many variable factors. For specific recommendations and/or comparative testing, please contact Hüls America Inc. A laboratory microbiological assay can indicate the level of preservative required to protect a particular formulation. Hüls America's laboratory is ready to supply this guidance.

HAZARDOUS PROPERTIES

DANGER! Concentrated solutions are corrosive and can cause severe eye and skin damage. Do not get in eyes, on skin or on clothing. Harmful if inhaled or swallowed.

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