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PM 31 49403-14 1046				
Please read instructions on reverse before completing form.	Form Approved. OMB	No. 2070-0060. Approval expires 05-31-98		
United States	Reg	istration OPP Identifier Number		
Environmental Protection		andmant l		
Washington, DC 2046		1 /453/3		
Application for Pesticide - Section I				
1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification		
49403-14	Marion Johnson	None Restricted		
4. Company/Product (Name) Nipacide X	PM# 31.			
5. Name and Address of Applicant (Include ZIP Code)	6. Expedited Review. In ac	cordance with FIFRA Section 3(c)(3)		
Nipa Hardwicke, Inc.	(b)(i), my product is similar or identical in composition and labeling			
	411 Silverside Road to:			
104 Hagley Building	EPA Reg. No			
Wilmington, DE 19810 Check if this is a new address		* <u>-</u>		
whom it also to have do not	Product Name			
	Section - II			
Amendment - Explain below.	Final printed labels in re	sponse to NOTIFICATION		
Resubmission in response to Agency letter dated	Agoncy inter dated			
X Notification - Explain below.	Notification - Explain below. Other - Explain below.			
Explanation: Use additional page(s) if necessary. (For section I and Section II.)				
Notification in accordance with PR Notice 93-10. Revision of Environmental Hazard Language.				
		•		
Notification in accordance with PR Not	ice 95-2. Addition of Rev	guratory crearances.		
and the second s		the first the season of the second of the season of the se		
	Section - III	the transfer to the		
1. Material This Product Will Be Packaged In:	1			
Child-Resistant Packaging Unit Packaging	Water Soluble Packaging 2. Ty	pe of Container		
Yes Yes	Yes	Motal		
No No Park 10 Auto-1945	No	Plastic Glass		
If "Yes" No. per	if "Yes" No. per	Paper		
be submitted Unit Packaging wgt. container	Package wgt container	Other (Specify)		
3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions				
Label Container				
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Other				
Section - IV				
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)				
Name	litle .	Telephone No. (Include Area Code)		
Kari E. Pearson, Lewis & Pazlanos		202-546- <i>\$4,</i> 2,7		
Certification 6. Date Application				
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped),				
both under applicable law.	Tid			
	. Tide	1 22 22 22 22 2		
Havi Et eauson	Agent			
4. Typed Name 5	Date /	, , , , , , , , , , , , , , , , , , , ,		
Kari E. Pearson	2/26/96	المراجعة ا		
Karr II. Tourou				

NIPACIDE® X

INDUSTRIAL MICROBIOSTAT

For industrial use only as a microbiostat preservative for aqueous compositions such as oil in water emulsions, latices, emulsion paints, water based adhesives, 'casein/rosin dispersions, and textile spin-finish solutions and for control of slime producing bacteria in paper making processes.

ACTIVE INGREDIENT:

1,2 benzisothiazolin-3-one

18%

EPA Reg. No. 49403-14

INERT INGREDIENTS:

EPA Est. No. 49403-EN-1

100%

See T.I. Bulletin NB-025 for directions for use.

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! CORROSIVE. CAUSES EYE AND SKIN DAMAGE. HARMFUL OR FATAL IF SWALLOWED.

Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

If in eyes:

Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Call a

physician immediately.

If swallowed:

Drink large quantities of water. Do not give anything by mouth to an unconscious person.

Call a physical or poison control center immediately.

If on skin:

Wash with plenty of soap and water.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to the NIPACIDE X T.I. Bulletin NB-025 for additional use.

STORAGE AND DISPOSAL

STORAGE:

Protect from frost. If frozen, allow to thaw and stir well before reuse.

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. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

CONTAINER DISPOSAL:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and

dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local

authorities, by burning. If burned stay out of smoke.

Nipacide is a trademark of NIPA LABORATORIES, INC.

3411 Silverside Road - Wilmington, Delaware 19810 - Tel. (302) 478-1522



NIPA HARDWICKE INC.

3411 SILVERSIDE RD., 104 HAGLEY BLDG., WILMINGTON, DE 19810 TELEPHONE (302) 478-1522 • FAX (302) 478-4097

Technical Information Bulletin NB - 025 EPA Reg.No. 49403-14

NIPACIDE® X A LIQUID PRESERVATIVE FOR AQUEOUS SYSTEMS

SUMMARY

NIPACIDE X , an aqueous solution of 1, 2 benzisothiazolin-3-one, is an efficient microbiostat preservative for aqueous compositions such as oil in water emulsions, lattices, emulsion paints, water-based adhesives, casein and rosin dispersions, and textile spin-finish solutions and for control of slime producing bacteria in paper making processes.

GENERAL

Many aqueous dispersions and emulsions can be seriously impaired during storage and use by the growth of bacteria and fungi in them.

NIPACIDE X is an effective preservative against growth of microorganisms in the aqueous systems listed and provides:

- a. Effective control of a wide range of organisms at economic concentration.
- b. Ease of use due to its liquid form and compatibility in most aqueous compositions.

PROPERTIES OF NIPACIDE X

Composition:

Essentially an aqueous solution of propylene

glycol and 1,2-benzisothiazolin-3-one.

Physical Form and Appearance:

Clear or faintly turbid brown-colored

liquid.

Viscosity (25°C):

(typical value) - 225 centipoise

Specific Gravity

(typical value) - 1.18 g/l

pH:

12.0 (minimum)

Solubility:

Miscible with water in all proportions

Stability:

Dilute aqueous solutions are stable, in the presence of electrolytes at pH down to

approximately 4.5.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Nipacide X is an effective preservative in most aqueous compositions. Typical applications and the suggested range of concentrations on which trials can be based, are:

> % Nipacide X Product on total weight of product)

Lattices:

Polymer lattices based on acrylate, butadiene, PVA, styrene. For various applications, e.g., wax, floor polishes. Synthetic/ rubber lattices.

0.04 - 0.09

Oil-in-water emulsions:

"Spin finish" solutions for use in the textile industry. Cutting/ rolling oils. Soluble oils* (metal and engineering industries.)

0.04 - 0.18

*We suggest formulators limit the addition of Nipacide X 0.9% maximum in metal-working fluid concentrates. This will give a maximum recommended use level of 0.09% Nipacide BIT 20 in a 10:1 dilution of the concentrate and reduce the possibility of skin sensitization.

Emulsion paint:

For preservation in the can.

0.04 - 0.26

Adhesives:

Carboxy methyl cellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex.

0.02 - 0.09

Paper coating compositions: **

Rosin dispersions

0.03-0.09

Starch and casein based products

**For use as a component of paper and paperboard in contact with aqueous and fatty foods. The active ingredient 1, 2 Benzisothiazolin-3-one may be used in paper coating compositions at a level not to exceed 0.01 mg/in2 (0.0016mg/cm2) of finished paper and paperboard. For use as a component of paper and paperboard in contact with dry foods, the level of active ingredient in the paper coating must not exceed 0.02 mg/in2 (0.0031 mg/cm2).of. finished paper and paperboard.

The concentration required to give protection depends on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which micro-organisms can gain access, the species involved, pH, temperature, and length of time for which protection is required.

For protection against bacterial attack, a concentration within the range of 0.02-0.35% Nipacide X is almost invariably sufficient.

The control of mold growth, particularly on paste products of high solids content, may occasionally demand dosages above 0.35%.

In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.09%.

A simple method of determining the effective dosage rate is to prepare samples of the product containing varying concentrations of Nipacide BIT 20 e.g., 0.02, 0.04, 0.06 and 0.15%. This can then be stored at approx. 25°C for a period of time and compared with a control sample or product containing no preservative stored under identical conditions.

SLIME CONTROL

There are two methods of adding slimicides to paper mill systems: shock dosing and continuous dosing.

The preferred method of addition is by shock dosing since this ensures that a high concentration of Nipacide X is present in the system for several hours. When a slime control agent is added by continuous methods over periods of several hours, its concentration in the system at any time is low. This can lead to the development of resistant organisms, an effect less likely to occur when the shock dosing method is used.

It is not possible to give precise recommendations as to the quantity of Nipacide X to add to control slime formation, since the magnitude of the problem varies greatly from mill to mill, depending on the finish employed, the cleanliness of the mill system, and the additional nutrients (for example, starch) that may be added to the stock).

The following quantities of Nipacide X are suggested for trial:

(a) Shock Dosing

Between 80 and 300g (2.75 - 11 oz. av.) of Nipacide X for each ton of paper produced per day should be added as a single daily shock dose; the actual quantity used depending on the severity of the slime problem.

This addition may be made to any part of the stock preparation or backwater system. Alternatively, the addition may be made to those parts of the system where it is known that slime deposits accumulate.

(b) . Continuous Addition

For this method, Nipacide X should be added continuously for either the single period of 8 hours during every 24 hours or for two separate periods of 4 hours during every 24 hours.

Nipacide X should be metered at the rate of (4.5 oz. -5.3 oz. av.) for each ton of paper produced during the dosing period. Preferably, this addition should be made to the recirculated backwater.

REGULATORY CLEARANCES

All components of Nipacide X are cleared for use under the following U. S. Environmental Protection Agency and U. S. Food and Drug Adminsitration registrations and clearances:

EPA Registration Number FDA:		49403-14
21 CFR	175.105	Components of adhesives.
21 CFR	176.170	Components of paper and paperboard in contact with aqueous and fatty foods.
21 CFR	176.180	Components of paper and paperboard in contact with dry food.
21 CFR	176.300	Slimicides (in the manufacture of paper and paperboard that contact food).

FOR YOUR PROTECTION:

The information and recommendations in this publication are, to the best of our knowledge, reliable, Suggestions made concerning uses or applications are only the opinion of NIPA Hardwicke Inc. and users should make their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, NIPA Hardwicke Inc. MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PURPOSE, other than that the material conforms to its applicable current Standard Specifications. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of NIPA Hardwicke Inc. for claims arising out of breech of warranty, negligence, strict liability, or otherwise is limited to the purchase price of the material.

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