

PM 22

2829-132

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
**2829-132**

Date of Issuance:  
**JUN 18 1996**

Term of Issuance: **Conditional**

Name of Pesticide Product:  
**Vinyzene SB-2**

NOTICE OF PESTICIDE:  
  X   Registration  
       Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

**Morton International, Inc.  
150 Andover Street  
Danvers, MA 01923**

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product ways refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Make the following label changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Under the KEEP OUT OF REACH OF CHILDREN, after the word DANGER, remove the !.
  - b. Revise the EPA Registration No. to read "EPA Reg. No 2829-132".
  - c. Under the Precautionary Statements Hazards to Humans and Domestic Animals, the sentence should read "Remove contaminated clothing and wash before reuse."
  - d. Under the Storage and Disposal section; the Pesticide Disposal section; the first sentence should read "Pesticide Wastes are acutely hazardous."
  - e. Under the Environmental Hazards Section; the following sentence should be added to the beginning of the paragraph:  
  
This pesticide is toxic to fish, aquatic invertebrates birds and mammals.

Signature of Approving Official: *[Handwritten Signature]*

Date: **JUN 18 1996**

2. In a letter dated June 29, 1992 (copy enclosed) we stated that a one year storage stability data at ambient warehouse conditions must be submitted to the agency within 15 months after registration has been granted. Please submit this study by August 14, 1997.
3. Submit one copy of your final printed label before you release your product for shipment.

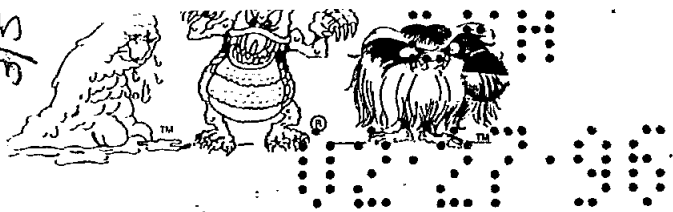
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosures



# VINYZENE® SB-2

## BACTERIOSTATIC & FUNGISTATIC ADDITIVE FOR PLASTICS

PROD

ACTIVE INGREDIENT	
10,10'-OXYBISPHENDXARSINE	5.0%
(TOTAL ARSENIC AS ELEMENTAL AS-1.5%)	
(WATER SOLUBLE ARSENIC AS ELEMENTAL AS- LESS THAN 0.01%)	
INERT INGREDIENTS	95.0%
	-----
	100.0%

\* KEEP OUT OF REACH OF CHILDREN \*

# DANGER!

\* READ THIS LABELING BEFORE USING \*  
\* FOR ADDITIONAL INFORMATION, SEE BULLETIN\*

EPA REGISTRATION NO. 2829-132  
EPA EST. REGISTRATION NO. 2829-IL-1

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

ABSORBED THROUGH THE SKIN. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE USE.

SEE RIGHT PANEL FOR ADDITIONAL PRECAUTIONS AND REFER TO THE TECHNICAL BULLETIN FOR ADDITIONAL DIRECTIONS FOR USE.

CORROSIVE. CAUSES BURNS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR PROTECTIVE CLOTHING AND RUBBER GLOVES. HARMFUL IF SWALLOWED OR

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JUN 18 1996

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

2829-132



Morton Plastics Additives  
150 Andover Street, Danvers, MA 01923-1480 508/774-3100  
For medical emergency call CHEMTREC 1-800/424-9300

### STATEMENT OF PRACTICAL TREATMENT \* IF ON SKIN

\* IF IN EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. WATER. CE  
\* IF SWALLOWED: CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK PR  
EGG WHITE, GELATIN SOLUTION OR IF THESE ARE NOT AVAILABLE, LARGE QU  
VOMITING BY TOUCHING THE BACK OF THE THROAT WITH FINGER. DO NOT IM  
BY MOUTH TO AN UNCONSCIOUS PERSON. AVOID ALCOHOL.  
NOTE TO PHYSICIAN: PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE

### ENVIRONMENTAL HAZARDS DO NOT DISCHARGE EFFLUENT INTO

OCEANS OR OTHER WATERS UNLESS  
REQUIREMENTS OF A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N  
AUTHORITY HAS BEEN NOTIFIED IN WRITING PRIOR TO DISCHARGE. DO NOT DIS  
PRODUCT INTO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE LOCAL SE  
FOR GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF T  
BY DISPOSAL OF EQUIPMENT WASHWATERS.

### STORAGE AND DISPOSAL DO NOT CONTAMINATE WATER, FOOD OR

TRIPLE RINSE EMPTY CONTAINERS AND  
CONTAINER DISPOSAL: METAL DRUMS THAT CANNOT BE RECONDITIONED AND REC  
CRUSHED AND DISPOSED OF IN A LANDFILL, OR OTHER PROCEDURES APPROVED

PESTICIDE DISPOSAL: PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF  
OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE  
LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CO  
WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE

### DIRECTIONS FOR USE NOTICE TO USER: IT IS A VIOLATION OF

IN A MANNER INCONSISTENT WITH ITS L  
INTERIOR APPLICATIONS: SUCH AS PVC FLOOR AND WALLCOVERINGS, COATED F  
AUTOMOTIVE PARTS, REFRIGERATOR GASKETS, SHOWER CURTAINS, AND MATTRES  
SB-2 BASED UPON THE TOTAL WEIGHT OF THE FORMULATION (6 LBS./1000 LBS  
EXTERIOR APPLICATIONS: SUCH AS AUTOMOTIVE LANDAU TOPS, EXTERIOR AUTO  
DITCH AND POND LINERS, MARINE UPHOLSTERY, SWIMMING POOL LINERS. USE  
THE TOTAL WEIGHT OF THE FORMULATION (10 LBS./1000 LBS. OF COMPOUND).

SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE USE OF  
ON THE LABEL. BUYER ASSUMES ALL RISKS OF USE AND/OR HANDLING OF THIS  
HANDLING IS CONTRARY TO LABEL INSTRUCTIONS.

DRUM NO. 0000 LOT NO.

# Vinyzene® SB-2 Antimicrobial Additive for Plastics

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## Product Description

VINYZENE SB-2 is a concentrate of 10,10'-oxybisphenoxarsine (OBPA) in a polymeric resin carrier. The product, supplied as a homogeneous solid in pelletized form, is recommended for PVC and other polymeric compositions requiring preservation against fungal and bacterial deterioration. Low levels of VINYZENE SB-2 will provide long term preservation against fungal and bacterial attack and will help prevent surface growth, permanent staining, embrittlement and premature product failure.

## Typical Properties

Composition:	
10,10'-oxybisphenoxarsine:	5%
Inert Carriers:	95%
Pellet Size:	Approx. 1/16" x 1/16"
Bulk Density (ASTM-D 1895):	40-45 lbs/cu. ft.
Appearance:	Clear, Light Straw Pellet
Torque Rheometer Viscosity (Rheocord):	620 meter-grams
Melting Point (ASTMD3418):	63°C (145°F)

## Application

The most commonly used methods for preserving plastics against fungal and bacterial attack are to add liquid solutions of additives (such as the VINYZENE BP-5-5 series) or to add pure active ingredient in powdered form. Such highly concentrated powders are often toxic and must be handled with extreme caution; they can present hazards to production personnel due to dusting problems and also can cause contamination of processing equipment.

Liquid systems have eliminated the dusting problem, but care still has to be taken to minimize contact with the skin and eyes of production workers. Rubber gloves and goggles are usually recommended to insure safe handling.

VINYZENE SB-2 not only eliminates dusting problems, but reduces the need for special handling. It is compatible with most thermoplastic resins and will not discolor or detract from the product's chemical or physical properties.

VINYZENE SB-2 can be incorporated into the resin compound at any convenient stage of the manufacturing process. The product can be fed into an extrusion operation in much the same way as pelletized color concentrates. Since VINYZENE SB-2 is soluble in most common coating and printing ink solvents, it can be added directly to the vehicle during manufacture. OBPA, the active ingredient, is resistant to leaching and is non-volatile at normal coating and plastic processing and use temperatures. Properly formulated compounds containing VINYZENE SB-2 will resist fungal and bacterial deterioration after long term exposure to heat and severe weathering conditions.

For those processors and compounders unable to use VINYZENE SB-2 in pellet form, other VINYZENE bacteriostatic and fungistatic compounds are available as 2% and 5% active solutions in various plasticizers and in several solvents. They are also available as 2% active anionic and nonionic emulsions. Call or write Morton International, Inc., Morton Plastics Additives for data sheets.

## Recommended Use Levels

Effective preservation against the growth of bacteria and fungi can be obtained with low levels of VINYZENE SB-2. The addition level is dependent upon the fungal and bacterial susceptibility of the product, the amount of preservation required, the ultimate use of the product and the degree of exposure to outdoor weathering or other conditions favorable for fungal and bacterial growth.

The following recommended use levels are based upon tests conducted in Morton laboratories and experience with exposure of products to actual service conditions. **FUNGAL AND BACTERIAL SUSCEPTIBILITY TESTING AND ASSISTANCE IN DEVELOPING FORMULATIONS TO MEET YOUR SPECIFIC REQUIREMENTS ARE AVAILABLE FROM MORTON INTERNATIONAL.**

*Interior Applications:* such as PVC floor and wall coverings, coated fabrics for upholstery, interior automotive parts, refrigerator gaskets, shower curtains and mattress covers:

*use 0.6% of VINYZENE SB-2 based upon the total weight of the formulation (6 lbs/1000 lbs of compound).*

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To the best of our knowledge the information contained herein is correct. All products may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the product is the sole responsibility of the user. Users of the product should satisfy themselves that the conditions and methods of use assure that the product is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Nothing herein is intended as a recommendation to use our products so as to infringe any patent. We assume no liability for customer's violation of patent or other rights. The customer should make his own patent investigation relative to his proposed use.



Morton Plastics Additives, 150 Andover Street, Danvers, MA 01923 508/774-3100 Fax 508-750-9511

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*Exterior Applications:* such as automotive landau tops, exterior automotive trim, tarpaulins, awnings, ditch and pool liners, marine upholstery, swimming pool liners:

*use 1.0% of VINYZENE SB-2 based upon the total weight of formulation (10 lbs/1000 lbs of compound).*

Fungal and bacterial activity under severe outdoor exposure is influenced by the overall weatherability of the plastic system. Recommendations on formulation parameters for products subjected to long term outdoor exposure are available from Morton International.

### **Toxicology**

Extensive toxicological studies have been carried out by recognized independent testing laboratories. Based on these tests, VINYZENE SB-2 has been classified as falling in category I of the Federal Insecticide, Fungicide and Rodenticide Act. The precautionary statements specified for this category are printed on the product label.

### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal. Triple rinse empty containers and offer for recycling. Metal drums that cannot be reconditioned and recycled, should be punctured or crushed and disposed of in a landfill, or other procedures approved by state and local authorities.

Pesticide wastes are toxic. 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 instruction, contact your State pesticide or Environmental Control Agency, or the Hazardous Waste representative *at the nearest EPA Regional Office for guidance.*

EPA REQUIRES THAT ANY PESTICIDE PRODUCT SHOULD ONLY BY USED AS SPECIFIED ON THE CONTAINER LABEL.

### **Standard Package**

350 lbs net steel drum  
25 kilos net fiber drum

**EPA Registration No. 2829-132**