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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 18 2001

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Review of the proposed uses of Bioshield AM 500 as material preservative on dried latex paints and in can paints

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1/17/2001

Norm Cook, Chief
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Norm Cook 01/18/01

DP Barcode: D270623 and D270618

Pesticide Chemical No.: 107401

EPA MRID No.: NA

Review Time: 8 Hours

PHED: N/A

ACTION REQUEST:

The Risk Assessment and Science Support Branch (RASSB) has been asked to perform a non-dietary risk assessment for use of Bioshield AM 500 [(3-(trimethoxysilyl) propyl dimethyl octadecyl ammonium chloride] as a spray on dried latex paints (indoor and outdoor), stains, coatings, films, laminates and finishes as well as directly added into can paints as preservative to control growth of odor causing bacteria, mold, mildew and algae.

BACKGROUND:

Bioshield AM 500 is a microbiostatic agent that inhibits the growth of odor causing bacteria, fungi and algae. When used as an additive for paints or coatings, Bioshield AM 500 is added directly during preparation of the paint or coating. According to the label, Bioshield AM 500 can be used on the following items:

- Air filters for furnaces, air conditioners, air purification devices, automobiles, recirculating air handling systems.
- Aquarium filter materials.
- Bed sheets, blankets, and bedspreads.
- Fire hose fabric.
- Mattress pads and ticking.
- Humidifier belts
- Mens underwear and outerwear
- Paints and coatings
- Polyurethane foam for household, industrial, and institutional sponges and mops.
- Umbrellas
- Toilet tank and seat covers
- Women's hosiery
- Shower curtains
- Shoe insoles
- Vacuum cleaner bags and filters

- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths than can be used for multiple purposes such as dusting or washing furniture, cars, walls, etc.
- Roofing materials.

CONCLUSIONS:

According to a memorandum by RASSB senior toxicologist, Dr. Timothy McMahon dated 12-6-1999 (a copy is attached), " The Agency recognizes as a matter of policy that chemicals which do not show any significant effects when tested to a limit dose do not require endpoint selection and risk assessment, based upon the existence of effects only at very high and unrealistic exposures. Therefore, for the proposed amended registration of Bioshield AM 500 containing 3-(trimethoxysilyl) propyl dimethyl octadecyl ammonium chloride as the active ingredient, RASSB at this time has no risk concern for this chemical."

Based on this memorandum, no toxicological endpoints were selected, therefore, there is no need for the non-dietary occupational and non-occupational exposure and risk assessment for the proposed uses of Bioshield 500AM at this time.

It should be noted that this conclusion does not apply to any future amended registrations or new uses for Bioshield AM 500, for which a non-dietary risk assessment may be necessary.

File:C:\Myfiles\ 2001 Reports\ Review of the proposed uses of Bioshield AM 500 as material preservative on dried latex paints and in can paints(D270623 and D270618).wpd

CC: Chemical files
Siroos Mostaghimi