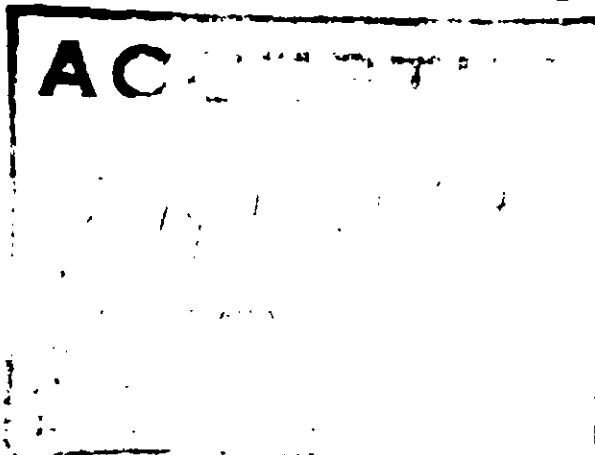




bioM&T* 410 MARINE ANTIFOULANT

FOR THE MANUFACTURE OF PAINTS—FOR THE CONTROL OF MANY MARINE FOULING ORGANISMS
FOR USE IN MANUFACTURING OTHER ECONOMIC POISONS

M&T CHEMICALS INC.
SUBSIDIARY OF AMERICAN CAN COMPANY

GENERAL OFFICES **RAHWAY, N. J.**

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ACTIVE INGREDIENTS

tributyltin fluoride	48.76%	Min.
2-ethylamino-4-isopropylamino-6-methylthio- s-triazine and related compounds	17.65%	

INERT INGREDIENTS	33.59%	Max.
Total...	100.00%	

DANGER! Keep Out of Reach of Children
Causes Severe Eye Damage
May Be Fatal if Swallowed
May Cause Skin Irritation

Do not get in eyes, on skin, or on clothing. Wear goggles or face shield when handling. Avoid exposure to dust.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get prompt medical attention, wash skin with plenty of soap and water. Wash contaminated clothing before re-use.

Do not contaminate water by cleaning of equipment, or disposal of wastes. Do not re-use empty container. Destroy it by perforating or crushing. Bury or discard in a safe place.

FOR MANUFACTURING USE ONLY

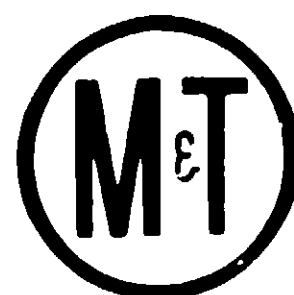
Read Technical Data Bulletin About This Product Prior to Use.

EPA Reg. No. 5204-52

OFFICES IN PRINCIPAL CITIES

No. 79

Made in U.S.A



Sheet No. 509

B-GB

bioMeT* 410 MARINE ANTIFOULANT

GENERAL DESCRIPTION

bioMeT 410 Marine Antifoulant is a new antifouling composition containing an organotin compound, tributyltin chloride, in combination with synergistic compounds. In equal parts bioMeT 410 Marine Antifoulant is a highly active mixture designed for protection of ship bottoms against marine algae as well as other fouling organisms, such as barnacles, tube worms, hydroids, tunicates and bryozoans. This fouling protection has been demonstrated by testing such coatings in the severe algae fouling waters of South Florida.

bioMeT 410 Marine Antifoulant also contains an inert filler that allows for easier handling and minimized dusting for this type of material. The filler also aids performance in that it helps provide the film with ability for optimum toxicant release.

In addition to superior and consistent performance, use of this antifoulant offers other advantages in that they are commercially competitive can be incorporated easily into the paint system, eliminate galvanic corrosion of steel and aluminum hulls that is caused by use of copper paints, allows for a wide range of colors, and will provide better adhesion properties as compared with copper systems.

PHYSICAL PROPERTIES

Physical form	White powder
Solids	100%
Particle size	60 µ
Density	1.85
Weight per gallon	13.8 lbs.

SUGGESTED FORMULATIONS

The formulations presented here are designed for optimum toxicant release in the marine environment when applied with the recommended Teflon® antifouling paint. Test results indicate no substantial increase in growth of algae species beyond that achieved by the commercially available antifoulants available other than M&T products.

For the given formulation levels of the resins and pigments are given. Other parameters such as solvents

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may be modified to suit a particular application volume is kept at recommended levels.

Use of bioMeT 410 Marine Antifoulant is not limited to these systems. Other formulations including evaluation of bioMeT 410 Marine Antifoulant in other resin systems may be designed and tested.

Formulation

Vinyl/Rosin Antifouling Paint Based on bioMeT 410 Marine Antifoulant

Mill Paste	Lb	Gals
Red Iron Oxide	14.35	.56
Talc	10.65	.45
bioMeT 410 Marine Antifoulant	23.05	1.73
Vinyl Resin VAGH	8.49	.75
WW Resin	5.65	.63
Methyls-butyl Ketone	14.28	2.14
Xylene	12.95	1.80
Bentonite 27	.18	.03
Methanol 95	.14	.02

Resin Solvent

Methyls-butyl Ketone	14.28	2.14
Xylene	12.95	1.80
Total	27.23	3.94

Directions

- Charge mill paste ingredients into the 1/2 gallon container.
- Later disperse in 1/2 gallon of vinyl resin and WW Resin are dissolved into the mill paste.
- Power Beater 27 with 95% Methanol 95 water solvent added to mill.
- Grind until a uniform paste reading 100 is obtained.
- Apply desired amount of mill to hull.

Physical Constants

Viscosity	3.1
Weight per gallon	13.8
Solids weight	100%
Solids volume	100%

100%

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Application

1. All surfaces to be painted should be clean and free of oil and grease.
2. For metal surfaces wash primers and appropriate surface treatments should be used.
3. Apply two coats at 10 days interval for optimum protection.

TOXICOLOGY - INDUSTRIAL HYGIENE

bioMcT 110 Marine Antifoulant is extremely hazardous to the eyes. Upon contact it may cause damage if not treated promptly. It is advisable to avoid contact with the eyes. This material is toxic by ingestion and care must be taken to avoid accidental swallowing. It is advisable to prevent skin contamination with bioMcT 110 Marine Antifoulant because of the possible transfer to more sensitive areas of the body. Inhalation of the dust should be avoided.

Paints containing bioMcT 110 Marine Antifoulant are hazardous to the eyes. It is advisable to avoid eye contact, especially from splashing while applying paint. Goggles

with side shields are suggested. Avoidance of eye contamination while painting should be taken to prevent accidental swallowing.

The vapors from this product are irritating and should be avoided to avoid skin contact.

SUGGESTED FIRST AID

Contamination of the eyes should be treated immediately by flushing continuously with water for fifteen minutes. Pretense a gentle continuously flowing stream of water should be run over the open eye, held open if necessary. A physician should be consulted. In the case of accidental swallowing, obtain medical help immediately. In the event of external body contact with bioMcT 110 Marine Antifoulant or vinyl paints containing it, the area should be washed thoroughly with soap and water followed by a thorough rinsing with water. Contaminated clothing should be removed and washed with soap and water before reuse.

Care should be exercised to prevent the spreading of bioMcT 110 Marine Antifoulant or vinyl paint containing it, to the eyes, nose and mouth.

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