

EXTRA LESC

MATERIAL SAFETY DATA SHEET

Broadmoor Products Inc.
2547 Three Mile Road NW #B
Grand Rapids, MI 49544

Phone: (616) 285-6440

FAX : (616) 285-5503

Product.....> MG-3710

Section 1: Material Identification

Chemical Family..... Nabam/Sodam, antimicrobial agent
EPA Registration..... 9386-11-57365
DOT Ship Name..... Compound, Industrial Process Water Treating
Hazard Class..... Not Regulated (ITEM 50227 SUB 1)
Date Prepared..... April 1, 2002

Section 2: Ingredient and Hazards

Precaution: harmful if swallowed, eye damage, skin irritant.

<u>Hazardous Ingredient</u>	<u>Percent</u>	<u>Limits (TLV)</u>
disodium ethylene bisdithiocarbamate (CAS 142-59-6)	<15	not established
sodium dimethyldithiocarbamate (CAS 128-04-1)	<15	not established
sodium hydroxide (CAS 1310-73-2)	< 4	2 mg ³ (ACGIH)
ethylene thiourea (CAS 96-45-7)	< 3	not established

Section: 3 Physical Data

Boiling Point..... 220 deg F
Specific Gravity..... 1.15
Vapor Pressure..... <12 mm Hg @ 68 F
Measured pH..... 11.5
Water Solubility..... complete
Appearance..... pale yellow to amber liquid
Odor..... slightly ammonia odor

NOTE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS
PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Abbreviation: n/a = not applicable n/d = not determined

MATERIAL SAFETY DATA SHEETProduct.....> **MG-3710****Section: 4** **Fire and Explosion Data**

Flash Point, F, COC..... >200
Flammable Limits..... LFL: n/a UFL: n/a
Auto Ignition Temp.... n/a
Extinguishing Media... water fog, foam, carbon dioxide, dry chemical
Special Procedures.... none
Unusual Fire Hazards.. decomposition products maybe toxic, hydrogen sulfide and flammable by-products generated under extreme heat or contact with acids. Use self contained breathing apparatus.

Section 5: **Health Hazard Data**

Threshold Limit Value.. none established
Carcinogen..... ethylene thiourea is listed as an anticipated carcinogen by the National Toxicology Program.

*** ROUTES OF EXPOSURE *****EYE & DERMAL**

Eye Contact..... contact can cause irritation or damage.
Skin Contact..... can be absorbed through the skin causing irritation.
Inhalation..... limited possibility of over exposure.
Oral..... moderate oral toxicity, Nabam LD₅₀ 395 mg/kg. May cause nausea, vomiting or diarrhea.

*** EMERGENCY FIRST AID ***

Eyes..... flush with water 15 minutes, seek medical attention immediately.
Skin..... flush with water 15 minutes, remove clothing
Inhalation..... move to fresh air.
Ingestion..... drink large quantities of milk, egg whites or water. Get immediate medical attention.

Section 6: **Reactivity Data**

Stability..... stable
Incompatibility..... strong acids or oxidizing agents.
Decomposition Products.. carbon disulfide or hydrogen sulfide may form.
Hazardous Polymerization will not occur
Abbreviation: n/a = not applicable n/d = not determined

MATERIAL SAFETY DATA SHEETProduct.....> **MG-3710****Section: 7 Environmental Protection Procedures**

Spill..... pesticide wastes are acutely hazardous. Improper disposal is a violation of federal law. Absorb larger spills onto sand or other absorbent material. Shovel into sealable containers. Do not allow contact with natural waterways.

Waste Disposal..... Collect waste liquid in sealed containers and landfill or incinerate following state or local regulations for pesticides liquids.

Reportable Quantities... CERCLA RQ - 3300 lb

SARA Title III Sec 313.. Ethylene Thiourea (CAS 96-45-7) Chronic

TSCA Listed..... all components of this product are listed on Toxic Substances Control Act Inventory.

Section: 8 Control Measures/Special Protection

Respiratory Protection.. provide good ventilation

Ventilation Recommended. provide local exhaust

Protective Gloves..... chemical resistant

Eye Protection..... wear safety glasses when handling concentrate.

Other Equipment..... safety/eye wash nearby

Work/Hygienic Practices: rinse & wash thoroughly after handling with clean water.

Storage..... store away in cool location, do not allow to freeze or exceed temperatures above 140 degrees F.

Abbreviation: n/a = not applicable n/d = not determined

MATERIAL SAFETY DATA SHEET

Product.....> MG-3710

Section: 9

ADDITIONAL INFORMATION

<u>HMIS Rating Code: HMIS</u>	0 = minimal
	1 = slight
Health..... 2	2 = moderate
Flammability..... 0	3 = serious
Reactivity..... 0	4 = severe
Personal Protection... C	C = safety glasses, rubber gloves, plastic apron.

The information provided relates to the specific material designated and may not be valid for such material combined with other materials outside the scope of intended usage. No representation, warranty or guarantee is made and it remains the user's responsibility to confirm by other investigation as to safe material application. We do not accept liability for loss or damage that may occur from the use of this information.

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Broadmoor Products Incorporated
2547 Three Mile Rd NW #B
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Phone: (616) 285-6440

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Product.....> **MG-5003****Section: 1 Material Identification**

Chemical Family..... organic phosphonate & polymer blend
DOT Ship Name..... Compound, Industrial Process Water Treating
DOT Hazard Class..... Not Regulated (ITEM 50227)
Date Prepared..... January 24, 2002

Section: 2 Ingredient and Hazards**CAUTION:** slightly corrosive liquid, irritation skin & eye

<u>Ingredients</u>	<u>Percent</u>	<u>Limits (TLV)</u>
acrylic terpolymer (Trade secret)	<10	not established
1-hydroxyethylidene-1,1-di- phosphonic K salt (CAS 2809-21-4)	< 8	not established
potassium hydroxide CAS(1310-58-3)	< 2	2 mg/m ³
sodium tolyltriazole (CAS 64665-57-2)	< 1	not established

Section: 3 Physical Data

Boiling Point..... >215°F
Specific Gravity..... 1.0483
Vapor Pressure..... <15 mm Hg 68°F
Vapor Density..... >1.0 (AIR=1)
Evaporation Rate..... 1.0 (Water=1)
Measured pH (neat).... 11.2
Total solids..... 10.1%
Total water content... 89.9%

Abbreviations: n/a = not applicable n/d = not determined

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MATERIAL SAFETY DATA SHEET

Product.....> MG-5003

Section: 3 Physical Data continued

Volatile organic..... 0.0 #/g
Appearance..... light amber liquid
Odor..... mild odor

Section: 4 Fire and Explosion Data

Flash Point, F, COC..... not combustible
Flammable Limits..... LEL: n/a UEL: n/a
Auto Ignition Temp.... n/a
Extinguishing Media... water, carbon dioxide, dry or foam
Special Procedures.... use SCBA with full face shield
Unusual Fire Hazards.. none

Section: 5 Health Hazard Data

Threshold Limit Value.. not established
Carcinogen..... no

*** ROUTES OF EXPOSURE *** DERMAL
Eye Contact..... prolonged contact may cause moderate chemical burns. Flush promptly.
Skin Contact..... may cause irritation.
Inhalation..... heavy mist may be irritating to mucous membranes of the nose, throat and lungs.
Oral..... may be irritating to the mouth, throat and gastrointestinal system.

*** EMERGENCY FIRST AID ***
Eyes..... flush with water 15 minutes, seek medical attention.
Skin..... flush with water 15 minutes, remove clothing.
Inhalation..... move to fresh air
Ingestion..... Give several glasses of milk. Induce vomiting, if conscious. Get immediate medical attention.

Abbreviations: n/a = not applicable n/d = not determined

MATERIAL SAFETY DATA SHEET

Product.....> MG-5003

Section: 6 Reactivity Data

Stability..... stable
Incompatibility..... strong acids
Decomposition Products.. none hazardous
Hazardous Polymerization will not occur

Section: 7 Environmental Protection Procedures

Spill..... absorb large spills onto sand or other absorbent material. Shovel into sealable containers. Flush small amounts to sewer with copious amounts of water. Do not allow contact with natural waterways.

Waste Disposal..... Dispose large quantities following proper federal, state or local regulations where applicable.

Reportable Quantities... None

TSCA Listed..... all components of this product are listed on Toxic Substances Chemical Act inventory list.

Section: 8 Control Measures/Special Protection

Respiratory Protection.. use with adequate ventilation.
Ventilation Recommended. provide local exhaust.
Protective Gloves..... chemical or solvent resistant material.
Eye Protection..... chemical goggles or face shield.
Other Equipment..... safety/eye wash nearby.
Work/Hygienic Practices: wash thoroughly with soap after handling.

Abbreviations: n/a = not applicable n/d = not determined

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Product.....> MG-5003

Section: 9 **ADDITIONAL INFORMATION**

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Fire..... 0	3 = serious
Reactivity..... 0	4 = severe
Personal Protection... B	B = safety glasses, rubber gloves

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