

# MATERIAL SAFETY DATA SHEET

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Product.....> **MG-3710**

*maint*

## Section 1: Material Identification

Chemical Family..... Nabam/Sodam, antimicrobial agent  
EPA Registration..... 9386-11-57365  
DOT Ship Name..... Environmentally Hazardous Substance Liq NOS  
Hazard Class..... Class 9 UN3082 PGIII  
Date Prepared..... May 9, 2006

## 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 bisdithio- carbamate (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 <sup>3</sup> (ACGIH)
ethylene thiourea (CAS 96-45-7)	< 3	not established

## Section: 3 Physical Data

Boiling Point..... 220°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



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## **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 LD<sub>50</sub> 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  
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### **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.

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## 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.