

# Material Safety Data Sheet

FREEMAN WAX ADDITIVE

19-1

QUICK IDENTIFIER

Common Name: (Used on label and list)

HMS\*

May be used to comply with OSHA's Hazard Communication Standard,  
29CFR 1910. 1200. Standard must be consulted for specific requirements.

## SECTION 1 -

Manufacturer's Name Freeman Manufacturing &amp; Supply Company

Address 1101 Moore Road

City, State, ZIP Avon, Ohio 44011

Signature of Person  
Responsible for Preparation (Optional)

Other Information Calls 440-934-1902

Date Prepared January 17, 2001

FOR CHEMICAL EMERGENCY  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
**800-424-9300**  
MCA3R Printed by LABELMASTER, CHICAGO, IL 60646



## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	% (optional)	OSHA PEL	ACGIH TLV	Other Exposure Limits	CAS NO.
DIETHANOLAMINE		0.46 ppm, skin		Not listed	111-42-2
STEARAMIDE DEA					93-82-3

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	340 °F ( 171.11 °C)	Specific Gravity (H <sub>2</sub> O = 1)	0.8625	Vapor Pressure (mm Hg)	Non data
	Vapor Density (Air = 1)	No data	pH: (10% aqueous)	9.8	
Solubility in Water	N/A	Reactivity in Water	N/A		
Appearance and Odor	Off-white waxy solid.	Melting Point	No data.		

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	7200 F.	Method Used	PMCC	Flammable Limits in Air % by Volume	LEL Lower	No data	UEL Upper	No data
Auto-Ignition Temperature	No data	Extinguisher Media		Water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.				

Special Fire Fighting Procedures Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual Fire and Explosion Hazards None known.

## SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable  Conditions None known.  
Stable  to Avoid

Incompatibility Oxidizing agents.  
(Materials to Avoid)

Hazardous Decomposition Products Combustion products: Carbon dioxide, carbon monoxide. Nitrogen oxides, ammonia.

Hazardous Polymerization May Occur  Conditions Will Not Occur  to Avoid

## SECTION 6 - HEALTH HAZARDS

1. Acute (Immediate) PLEASE SEE ATTACHED SH. 2. Chronic (Delayed Effect)

Signs and Symptoms of Exposure PLEASE SEE ATTACHED SHEET

Medical Conditions Generally Aggravated by Exposure

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes  No  I.A.R.C. Monographs Yes  No  OSHA Yes  No

Emergency and First Aid Procedures PLEASE SEE ATTACHED SHEET

## ROUTES OF ENTRY

1. Inhalation X  
2. Eyes X  
3. Skin X  
4. Ingestion

## SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Do not get in eyes. Prevent skin contact. Avoid breathing this material. Do not swallow. Normal chemical handling and storage.

Other Precautions Storage requirements: 50-90 F in original closed container.

Steps to be Taken in Case Material is Released or Spilled Sweep up and recover or mix material with a moist absorbent and shovel into a chemical waste container. Wash residue from spill area with water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

Waste Disposal Discarded product is not a hazardous waste under RCRA, 40 CFR Methods (Consult federal, state, and local regulations) 261.

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment.

## SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) If needed, use MSHA-NIOSH approved respirator for organic vapors.

Ventilation Use ventilation adequate to maintain safe levels.

Protective Gloves Impervious gloves. Eye Protection Chemical tight goggles and full face shield.

Other Protective Clothing or Equipment Eyewash station and safety shower in work area.

\* of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

## IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

**HAZARDS IDENTIFICATION**

General:

Limited toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.

Emergency Overview:

Appearance: Off-white waxy solid

CAUSES EYE BURNS. MAY CAUSE SKIN IRRITATION. INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION.

Routes of exposure: Eye contact; Skin contact; Inhalation

Symptoms of Overexposure (Acute & Chronic):

Eye contact:

This material will probably cause burns to human eyes following contact.

Skin contact:

This material will probably irritate human skin.

Exposure to diethanolamine may cause allergic contact dermatitis. If allergy develops, very low future exposures can cause itching and a skin rash.

Systemically toxic concentrations of this product will probably not be absorbed through human skin.

Diethanolamine has the potential for possibly harmful skin absorption. Studies have been performed by the National Toxicology Program (NTP) on skin absorption of diethanolamine in mice and rats. The results of the studies show no evidence of carcinogenicity in rats of both sexes but clear evidence of carcinogenicity on mice of both sexes. The significance of these findings is unclear and additional testing is currently underway.

Inhalation:

High concentrations of mists or aerosols may irritate respiratory passages.

No toxic effects are known to be associated with inhalation of this material.

Ingestion:

In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product.

No toxic effects are expected following ingestion of this product.

Chronic Effects: Overexposure to diethanolamine may affect the liver, kidney and blood. In acute and subacute feeding studies in rats, 0.09 g/kg of diethanolamine caused changes in liver and kidney weights.

**FIRST AID MEASURES**

Eyes:

Immediately flush with plenty of water for at least 15 minutes. Have eyes examined and treated by medical personnel.

Skin:

Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.

Ingestion:

DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and

---

**FIRST AID MEASURES**

---

refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

**Inhalation:**

Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

---

**TOXICOLOGICAL INFORMATION**

---

The toxicity data listed below are based on the results of screening tests on this specific product.

**Eye contact:** A 5% suspension of this material was tested. This material was nonirritating in rabbit eye irritation studies. However, due to the percent dilution that was tested and the nature of the components, it is expected that this material will probably cause eye burns.

**Skin contact:** A 5% suspension of this material was tested. This material is nonirritating in rabbit dermal irritation studies. However, due to the percent dilution that was tested this material is expected to cause skin irritation.

**Carcinogenicity:** This material is not listed as a carcinogen by OSHA, IARC, and NTP.

**Reproductive toxicity/teratogenicity:** No available information.

**Mutagenicity:** No available information.

**Toxicologically synergistic products:** None known.

---

**ECOLOGICAL INFORMATION**

---

No data is available on this product.

---

**TRANSPORT INFORMATION**

---

**Department of Transportation:** Regulated only when the RQ is met or exceeded.  
**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (contains Diethanolamine)

**Hazard class:** Class 9, PG III, Environmentally Hazardous Substance

**UN/NA ID number:** UN3082

**ERG number:** ERG# 171

**DOT (Transportation of Dangerous Goods):** Not regulated.

---

**REGULATORY INFORMATION**

---

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:  
All ingredients are on the TSCA Chemical Substance Inventory.

DSL (Canadian Domestic Substances List):  
All ingredients are listed on the Canadian DSL.

OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:  
Physical Hazards: None.  
Health Hazards: Corrosive (eye)

WHMIS Classification:  
Class D, Division 2 -- Toxic.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):  
This material contains the following chemicals subject to the reporting requirements of SARA 313:

CAS NUMBER	CHEMICAL NAME
111-42-2	DIETHANOLAMINE

SARA 311/312 Hazard categories:

Immediate: YES  
Delayed: NO  
Fire: NO  
Pressure: NO  
Reactivity: NO

State Regulations:  
None.

---

**OTHER INFORMATION**

---

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.\*

HMIS Information

Health	3
Flammability	1
Reactivity	0

NFPA Information

Health	3
Flammability	1
Reactivity	0

This information is intended solely for the use of individuals trained in the particular hazard rating system.