

**Material Safety Data Sheet**

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

**U.S. Department of Labor**

Occupation Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

**IDENTITY****BEA DRAW H (160025)**

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**Section I**

Manufactured For: <b>Beaver Research Company</b>		Emergency Telephone Number <b>1-800-255-3924 (Chem-Tel)</b>
Address (Number, Street, City, State, and ZIP Code) <b>3700 E. Kilgore Road, Portage, MI 49002</b>		Telephone Number For Information <b>269-382-0133</b>
HMIS RATINGS: 4=Severe 3=High 2=Moderate	Health: 0 Flammability: 1 Reactivity: 0 Special Protection:	Date Prepared <b>02/18/98</b> Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Triethanolamine 99	00102-71-6		N/E		20-25

To date there is no established OSHA exposure limit for Triethanolamine 99

**Section III - Physical/Chemical Characteristics**

Boiling Point	212°F	Specific Gravity (H <sub>2</sub> O = 1)	1.054
Vapor Pressure (mm Hg)	N/A	% Volatile by Volume	30-40 as water
Vapor Density (AIR = 1)	<1	Evaporation Rate (Butyl Acetate = 1)	1
Solubility in Water Complete	pH		

Appearance and Odor

Amber, clear liquid

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used) None	Flammable Limits N/A	LEL	UEL
Extinguishing Media CO <sub>2</sub> , dry chemical, foam			

**Special Fire Fighting Procedures**

This material as received will not support combustion, however its residue may. Therefore, procedures for an oil fire should be followed. Use self contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used ONLY to keep surrounding containers cool.

**Unusual Fire and Explosion Hazards****Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid	Sources of ignition.
	Stable	X		

**Incompatibility (Materials to Avoid)**

Strong oxidizing or reducing agents.

**Hazardous Decomposition or Byproducts**

Oxides of Carbon, Hydrogen, Phosphorous and Nitrogen

Hazardous	May Occur		Conditions to Avoid
Polymerization	Will Not Occur	X	

## Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

### Health Hazards (Acute and Chronic)

**Skin:** Tests on similar materials indicate that no significant adverse health effects are expected to occur with short term exposure. **Eyes:** Test on similar materials suggests that minimal irritation may occur on contact. **Ingestion:** Tests on similar materials indicate no significant adverse effects expected. Practically non-toxic. **Inhalation:** Tests on similar materials indicate no acute effects are expected.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

### Signs and Symptoms of Exposure

### Medical Conditions Generally Aggravated by Exposure

### Emergency and First Aid Procedure

**Eyes:** Flush eyes immediately with water for at least 15 minutes or until irritation subsides. If irritation persists, consult a physician. **Skin:** Immediately remove soaked or contaminated clothing. Wash skin thoroughly with soap and water. Launder all contaminated clothing before reuse. If skin irritation or rash develops obtain medical assistance.

**Ingestion:** Product is practically non-toxic. Do not induce vomiting. Obtain emergency medical attention. **Inhalation:** Not likely to occur except as a mist. Move to fresh air and provide oxygen if necessary. Obtain emergency medical attention.

## Section VII - Precautions for Safe Handling and Use

### Steps to be Taken in Case Material is Released or Spilled

Shut off ignition sources. Absorb spillage with insert materials. Contain spill and keep from entering waterways or sewers. Advise EPA/state agency if required. Use personal protective equipment. Shovel, sweep or vacuum spill.

### Waste Disposal Method

Follow federal, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Product may be amenable to sewer depending on local codes; if not permitted use a certified disposal services.

### Precautions to be Taken in Handling and Storage

Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors. NFPA Class IIIB storage.

### Other Precautions

## Section VIII - Control Measures

### Respiratory Protection (Specify Type)

Not required if adequate ventilation. If occupational exposure limits are exceeded wear NIOSH approved apparatus.

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

### Protective Gloves

Acceptable materials for gloves are polyvinyl chloride; neoprene; polyvinyl alcohol; nitrile; viton

### Eye Protection

Glasses or goggles. Have suitable eye wash water available

### Other Protective Clothing or Equipment

If there is a likelihood of splashing, an oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes.

### Work/Hygienic Practices

Wash thoroughly after handling. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.