

# 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 <b>S-722 (250245)</b>	<i>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.</i>
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## Section I

Manufactured by: <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: 0=Insignificant 3=High 1=Slight 4=Extreme 2=Moderate	Health: 2 Flammability: 0 Reactivity: 0 Personal Protection: B
	Date Revised <b>10/16/07</b>
	Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	ACGIH TWA PPM	ACGIH STEL MG/M <sup>3</sup>	ACGIH STEL PPM	ACGIH STEL MG/M <sup>3</sup>	SARA TITLE III	RQ LBS
Ethylene glycol monobutyl ether (a,b)	111-76-2	25	120			Yes	1000
Monoethanolamine	141-43-5	3	8	6	15	No	
Sodium phosphate, tribasic (STPP)(c)	7758-29-4						
Sodium phosphate, tribasic (TSP) (c)	7601-54-9						

(a) A "YES" in the SARA TITLE III column indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

(c) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ) or greater amounts, according to 40 CFR 302.

## Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H <sub>2</sub> O = 1)	1.017
Vapor Pressure (mm Hg)	17mm@20°C	Melting Point	N/A
Vapor Density (AIR = 1)	<1	Evaporation Rate (Butyl Acetate = 1)	<1
Solubility in Water: Complete	% Volatile (by wt): 91%	Total VOC: 5.70%	

Appearance and Odor

Light purple liquid, lemon odor.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Non-flammable	Flammable Limits	LEL N/A	UEL N/A
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Extinguishing Media

CO<sub>2</sub>, water, water fog, dry chemical, chemical foam.

Special Fire Fighting Procedures

Keep drums cool with water spray to prevent drum rupture due to steam buildup; floor will become slippery if material is released.

Unusual Fire and Explosion Hazards

None.

## Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	None
	Stable		

Incompatibility (Materials to Avoid)

Strong oxidizers, strong acids.

Hazardous Decomposition or Byproducts

Thermal decomposition may yield CO; CO<sub>2</sub>; small amounts of ammonia fume.

Hazardous	May Occur	Conditions to Avoid	None.
Polymerization	Will Not Occur		

**Section VI - Health Hazard Data**

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

Health Hazards (Acute and Chronic)

Acute effects are possible irritation and discomfort; no known chronic effects have been established.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

**Inhalation:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise. **Skin:** Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis. **Eyes:** Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva. **Ingestion:** Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.

Medical Conditions Generally Aggravated by Exposure

Pre-existing skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

Emergency and First Aid Procedure

**Inhalation:** Remove victim to fresh air; provide oxygen if breathing is difficult; administer CPR if victim is not breathing; seek medical attention. **Skin:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention. **Eyes:** Flush eyes with water for 15 minutes while holding eyelids open; seek medical attention. **Ingestion:** Give two glasses of water for dilution; induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.

**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled

Small spills -- wash to sanitary sewer with plenty of water. Large spills -- confine spill, soak up with approved absorbant, shovel product into approved container; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

Waste Disposal Method

Dispose of in accordance with Local, State, and Federal Regulations.

Precautions to be Taken in Handling and Storage

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.

Other Precautions

Keep this and other chemicals out of reach of children; minimize body contact with this product as well as all chemicals in general.

**Section VIII - Control Measures**

Respiratory Protection (Specify Type)

None required while threshold limits (Section II) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn.

Ventilation	Local Exhaust	Required	Special	To maintain minimum TWA/STEL levels.
	Mechanical(General)	Yes	Other	Engineering and work controls as required.

Protective Gloves

Neoprene or rubber.

Eye Protection

Goggles with side shields; safety eye bath nearby.

Other Protective Clothing or Equipment

Coveralls, apron, or other equipment should be worn to minimize skin contact.

Work/Hygienic Practices

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

*The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.*