

Material Safety Data Sheet

U.S. Department of Labor

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

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

IDENTITY

S-711 (250240)

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 by: Beaver Research Company	Emergency Telephone Number 1-800-255-3924 (Chem-Tel)
Address (Number, Street, City, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 269-382-0133
HMIS RATINGS: 0=Insignificant 3=High 1=Slight 4=Extreme 2=Moderate	Health:1 Flammability:0 Reactivity:0 Personal Protection:B
	Date Prepared 07/16/2009
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	%	TWA	ACGIH STEL	PEL	OSHA HOURS	SARA Title III
(2-methoxymethylethoxy)propanol	34590-94-8	1-5	100 ppm	150 ppm	100 ppm	8	No
2-aminoethanol	141-43-5	1-5	3 ppm	6 ppm	3 ppm	8	No

Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H ₂ 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	pH: 12.5 ±.5	Total VOC: 2.79	

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

CO₂, 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	X	

Incompatibility (Materials to Avoid)

Strong oxidizers, strong acids.

Hazardous Decomposition or Byproducts

Thermal decomposition may yield CO; CO₂; small amounts of ammonia fume.

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

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Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	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: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. **Skin:** No known significant effects or critical hazards. **Eyes:** No known significant effects or critical hazards. **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: Move exposed person to fresh air. Loosen tight clothing such as collar, tie, belt, or waistband. **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:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Small spills -- Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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. However, use of adequate ventilation is good industrial practice.

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

Safety eyewear complying with an approved standard to avoid liquid splashes.

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.

N/A=Not Applicable

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.