

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-TWEEN (120025)

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

Manufacturer's Name Beaver Research Company	Emergency Telephone Number 1-800-255-3924 (Chem-Tel)
Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 269-382-0133
HMIS Rating: Health-1, Flammability-0; Reactivity-0; Personal Protection-A	Date Prepared 05/01/02
	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)
Isobutane	75-28-5	800ppm	800ppm		3-7%
Propane	74-98-6	1000ppm	asphyxiant		1-5%
*Butoxyethanol	111-76-2	25ppm(skin)	25ppm(skin)		5-10%
Isopropyl Alcohol	67-63-0	400ppm	400ppm	500ppm(STEL)	1-5%

*Butoxyethanol (a glycol ether compound) is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantities. This information must be included in all MSDS's that are copied and distributed for this product.

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H ₂ O = 1)	0.985
Vapor Pressure (mm Hg)	47±5	Melting Point	No Data
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	No Data
Solubility in Water	Complete	pH	10.0-11.0

Appearance and Odor

Total VOC: 17.6%

Hazy, colorless liquid with an ethereal-citrus scent. Wet foam from aerosol.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 0"; Non-flammable	Flammable Limits No Data	LEL No Data	UEL No Data
---	------------------------------------	-----------------------	-----------------------

Extinguishing Media

If necessary, use carbon dioxide, dry chemical, foam, fog, or water spray as appropriate for fire's fuel source.

Special Fire Fighting Procedures

Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

Unusual Fire and Explosion Hazards

Aerosol container (pressurized) may burst if heated over 120°F.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	Extreme heat, direct sunlight
	Stable		

Incompatibility (Materials to Avoid)

Chlorine, oxidizers, and strong alkalis.

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide, hydrogen, and nitrogen.

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

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No

Health Hazards (Acute and Chronic)

Warning: Causes eye irritation. May cause skin irritation. May be absorbed through intact skin. May be harmful if inhaled or swallowed. Central nervous system effects possible if improperly used. Contents under pressure. Use good chemical hygiene practices to avoid these hazards.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None known	No	No	No

Signs and Symptoms of Exposure

Redness, tearing, burning in eyes. Redness, drying, cracking of skin. Drowsiness, dizziness, loss of coordination, vomiting and abdominal pain if ingested.

Medical Conditions Generally Aggravated by Exposure

Pre-existing skin and lung disorders may be aggravated by prolonged or repeated occupational overexposure.

Emergency and First Aid Procedure

Eyes: Flush with plenty of water for at least 15 minutes lifting eyelids to insure complete removal. Get immediate medical attention. **Ingestion:** If conscious, drink plenty of water. Call a physician or poison control center immediately. Do not induce vomiting unless directed by a physician. **Inhalation:** Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin:** Wash with soap and water. If irritation arises and persists, call a physician.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Caution, slip hazard. Wipe up small spills with a rag or absorbant cloth. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Vacuum or pick up on absorbent. Put in suitable container for proper disposal.

Waste Disposal Method

Consult local, state and federal regulations. Do not puncture or incinerate container. Replace cap on empty can, wrap, then discard container if allowed by applicable statutes.

Precautions to be Taken in Handling and Storage

Avoid contact with eyes, skin, and clothing. Avoid inhaling mist or vapors. Use with adequate ventilation. Do not swallow. Store in a cool (under 120°F) dry location away from heat, sparks, open flame, and direct sunlight. Direct spray away from face. Replace cap when not in use. Wash thoroughly after handling.

Other Precautions

Follow label directions carefully. Keep out of reach of children. Do not deliberately concentrate and inhale vapors. Do not use around ignition sources such as heat, sparks, open flame, etc.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Not usually necessary. Use with adequate ventilation. If PELs or TLVs are exceeded (see Section II), use an approved NIOSH/MSHA respirator.

Ventilation	Local Exhaust	Not usually needed	Special	None
	Mechanical(General)	Acceptable	Other	None

Protective Gloves

Not usually necessary. Use if contact with skin is possible.

Eye Protection

Yes, approved safety glasses or goggles. (ANSIZ87)

Other Protective Clothing or Equipment

Not usually necessary. If direct contact is possible, use apron, boots, etc.

Work/Hygienic Practices

Normal. Wash thoroughly before eating, drinking, smoking, using restrooms, etc.

All information contained in this material safety data sheet is believed to be true and accurate at this time. However, Beaver Research Company makes no guarantees, expressed or implied, nor assumes any liability for it use. Final determination of siutability of any material is the sole responsibility of the user.