

H I O PE	CHEMICAL NAME BRUTE
	MANUFACTURER BRULIN
	DATE MSDS 01204

Lab Safety Supply Inc. Reorder No. 17135

PRODUCT NAME: **BRUTE!**
 PRODUCT NUMBER: 123002



#01204

MATERIAL SAFETY DATA SHEET

Per 29 CFR 1910.1200

DATE PREPARED: 12/16/92

SECTION I:

BRULIN & COMPANY, INC. P.O. BOX 270, INDIANAPOLIS, IN 46206-0270 (317) 923-3211
 WEST COAST FACTORY Richmond, California
 SOUTHEASTERN FACTORY Tampa, Florida
 24 HOUR EMERGENCY NUMBER (317) 923-3233
 CHEMTREC 1-800-424-9300

IDENTITY (As listed on label):
BRUTE!

Health: 2
 HMIS HAZARD RATINGS: Flammability: 1
 Reactivity: 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #	OSHA PEL	ACGIH TLV-TWA	OTHER LIMITS	
				RECOMMENDED	PERCENT
*glycol ethers (2-Butoxyethanol)	111-76-2	25 PPM	25 PPM	STEL 75 PPM	28
Ethanolamine, 2-Aminoethanol, Monoethanolamine	141-43-5	3 PPM	3 PPM	STEL 6 PPM	5-10
Potassium Hydroxide, caustic potash	1310-58-3	(2 mg/m3 Ceiling)	(2mg/m3 Ceiling)	None	0.1-1.0

SECTION 313 SUPPLIER NOTIFICATION

The toxic chemical(s) listed above which are marked with an (*) are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212 F
 Vapor Pressure (mm Hg): 2-Butoxyethanol 0.6@68F
 Vapor Density (Air=1): 2-Butoxyethanol 4.0
 Solubility in Water: Complete
 Appearance and Odor: Yellow green liquid, mild citrus odor.

Specific Gravity (H2O=1): .986
 Melting Point: Approx. 30 F
 Evaporation Rate (water=1): 1.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 200 F Pensky Marten
 Flammable Limits LEL Unknown UEL Unknown
 Extinguishing Media: Water, dry chemical, foam, carbon dioxide
 Special Fire Fighting Procedures: None
 Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability Unstable ___ Stable X
Incompatibility (Materials to Avoid): Conditions to Avoid: Freezing
Hazardous Decomposition or Byproducts: Strong oxidizers and acids.
Hazardous Polymerization: May Occur ___ May Not Occur X
Conditions to Avoid: Thermal decomposition can produce carbon monoxide, carbon dioxide, nitrogen oxides.
None

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Ingestion? No Skin? Yes Inhalation? Yes Eyes?
Health Hazards (Acute and Chronic): Eye - Direct contact may cause irritation. Ingestion - May cause gastrointestinal irritation and irritation of mouth and throat. Skin - Prolonged or repeated contact may cause irritation. 2-Butoxyethanol may be absorbed in harmful amounts. Inhalation - Excessive exposure may cause respiratory irritation. Chronic exposure may cause blood effects, and liver or kidney injury.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No
Signs and Symptoms of Exposure: Eye contact may cause irritation, seen as redness and swelling. Prolonged skin contact may cause irritation, seen as redness. Excessive inhalation of mists may be irritating and cause coughing and discomfort in the nose throat and chest. Acute overexposure to 2-Butoxyethanol may cause lethargy and drowsiness. Ingestion may cause pain or discomfort in the mouth, throat, and stomach.
Medical Conditions Generally Aggravated by Exposure: Ethanolamine may aggravate asthma and inflammatory or fibrotic pulmonary disease. May also aggravate an existing dermatitis.
Emergency & First Aid Procedures:
Eye Contact: Flush with large amounts of water for at least 15 minutes lifting upper & lids occasionally. Get medical attention.
Inhalation: If affected, remove to fresh air. Administer oxygen if breathing is difficult.
Skin Contact: Wash with mild soap and water. Remove contaminated clothing and launder before reuse.
Ingestion: If conscious, dilute by giving at least two glasses of water. Call a physician immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Absorb on solid absorbent and shovel into containers for disposal.
Waste Disposal Method: Dispose of according to Federal, State and Local Laws and 40 CFR.
Precautions to be Taken in Handling and Storing: Store between 40 and 120 F.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): Not normally required. Use NIOSH/MSHA approved respirator if TLV's is exceeded.
Ventilation: Mechanical (General): Normally Sufficient
Protective Gloves: Butyl rubber if skin contact is likely.
Eye Protection: Goggles or safety glasses when handling conc.
Other Protective Clothing or Equipment: As necessary to avoid skin contact.
Work/Hygienic Practices: Avoid breathing spray mist.