

PRODUCT NAME: FORMULA 815 MX

PRODUCT NUMBER: 111005

PAGE 1

MATERIAL SAFETY DATA SHEET

Per 29 CFR 1910.1200

DATE PREPARED : 8/30/99

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  
CHEMTREC 1-800-424-9300

IDENTITY (As listed on label):

FORMULA 815 MX

Health: 1  
HMIS HAZARD RATINGS: Flammability: 0  
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
Ethanolamine, 2-Aminoethanol, Monoethanolamine	141-43-5	3 PPM	3 PPM	STEL 6 PPM	1-5

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	212 F	Specific Gravity (H <sub>2</sub> O=1):	1.076
Vapor Pressure (mm Hg):	Ethanolamine 0.2@68F	Melting Point:	Approx. 30 F
Vapor Density (Air=1):	Ethanolamine 2.1	Evaporation Rate (water=1):	1.0
Solubility in Water:	Complete		
Appearance and Odor:	Blue green liquid, citrus odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None  
Flammable Limits LEL NA UEL NA  
Extinguishing Media: Not Applicable  
Special Fire Fighting Procedures: None  
Unusual Fire and Explosion Hazards: None

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**SECTION V - REACTIVITY DATA**

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Stability Unstable  Stable

Conditions to Avoid:

Incompatibility (Materials to Avoid):

Hazardous Decomposition or Byproducts:

Freezing  
Strong oxidizers and acids.

Thermal decomposition can produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: May Occur  May Not Occur

Conditions to Avoid: None

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**SECTION VI - HEALTH HAZARD DATA**

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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. Inhalation - Excessive exposure may cause respiratory irritation.

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. 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 & lower lids occasionally. Get medical attention.

Inhalation: If affected, remove to fresh air.

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 or local poison control center immediately.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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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.

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**SECTION VIII - CONTROL MEASURES**

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Respiratory Protection (Specify Type): Not normally required. Use NIOSH-MSHA approved respirator if TLV of Ethanolamine is exceeded.

Ventilation: Mechanical (General): Normally Sufficient

Protective Gloves: Neoprene or butyl rubber on prolonged contact.

Eye Protection: Goggles or safety glasses when handling concentrate

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Avoid breathing spray mist.