



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Material name</b>	<b>FORMULA 815 MX</b>
<b>Product number</b>	111005
<b>Revision date</b>	14-Aug-2006
<b>Company information</b>	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 US www.Brulin.com
<b>Emergency</b>	CHEMTREC 1-800-424-9300
<b>General information</b>	Phone: 317-923-3211 Fax: 317-925-4596

### 2. Hazards Identification

<b>Emergency overview</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Contact with this material can cause irritation to the skin, eyes and mucous membranes.
<b>Potential short term health effects</b>	
<b>Routes of exposure</b>	Inhalation.
<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	Prolonged and/or repeated skin contact may result in mild irritation or redness.
<b>Inhalation</b>	Prolonged or excessive inhalation may cause respiratory tract irritation.
<b>Ingestion</b>	Irritating to mouth, throat, and stomach.
<b>Target organs</b>	Respiratory system.

### 3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Sodium Tripolyphosphate	7758-29-4	< 5
Ethanolamine	141-43-5	< 2.5

### 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
<b>Skin contact</b>	Wash with soap and water. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Give several glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Obtain medical attention.
<b>General advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 5. Fire Fighting Measures

<b>Flammable properties</b>	None known.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use any media suitable for the surrounding fires.

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## 6. Accidental Release Measures

**Methods for cleaning up** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

## 7. Handling and Storage

**Handling** Store and handle in accordance with all current regulations and standards.

**Storage** Keep at temperatures between 4 and 49°C.

## 8. Exposure Controls / Personal Protection

### Exposure guidelines

#### ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Ethanolamine 141-43-5 6 Ppm STEL

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Ethanolamine 141-43-5 3 Ppm TWA

#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Ethanolamine 141-43-5 irritation

#### OSHA - Final PELs - Time Weighted Averages (TWAs)

Ethanolamine 141-43-5 3 Ppm TWA; 6 mg/m<sup>3</sup> TWA

### Personal protective equipment

**Eye / face protection** Wear chemical goggles. or safety glasses with side-shields

**Skin protection** Wear impervious gloves for prolonged contact.

**Respiratory protection** Under normal conditions, respirator is not normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

<b>Appearance</b>	liquid
<b>Clarity</b>	Not available
<b>Color</b>	blue green
<b>Form</b>	Liquid.
<b>Odor</b>	citrus
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	11.8 - 12.2
<b>Melting point</b>	30 °F
<b>Freezing point</b>	30 °F Approximate
<b>Boiling point</b>	212 °F
<b>Flash point</b>	> 212 °F Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.076
<b>Relative density</b>	Not available
<b>Solubility (H<sub>2</sub>O)</b>	100 %
<b>Octanol/H<sub>2</sub>O coeff</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available

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VOC (Weight %) 2.837 %

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable at normal conditions.  
**Conditions to avoid** Do not freeze.  
**Incompatible materials** Strong oxidizing agents. and acids  
**Hazardous decomposition products** Carbon monoxide and carbon dioxide. and nitrogen oxides (NOx)  
**Possibility of hazardous reactions** Will not occur.

## 11. Toxicological Information

**Acute effects** Acute LD50: 11169 mg/kg, Rat, Oral  
**Local effects** Irritating to respiratory system.  
**Chronic effects** Repeated or prolonged exposure may cause irritation of eyes and skin. Chronic inhalation causes tiredness, headache and rhinitis.

## 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

### Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### CERCLA (Superfund) reportable quantity

FORMULA 815 MX: 114000.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

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Section 311 hazardous chemical Yes

## Inventory status

Country(s) or region	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS)
Canada	Domestic Substances List (DSL)
China	Inventory of Existing Chemical Substances in China (CCS)
Korea	Korean Inventory of Chemicals (KICS)
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

## International regulations

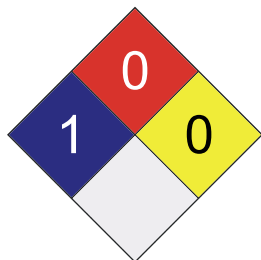
The product is classified and labelled in accordance with EC directives or respective national laws.

## 16. Other Information

### HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B

### NFPA codes



### Prepared date

14-Aug-2006 09:39:07

### Superseded date

17-Apr-2006 09:46:35

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

### MSDS sections updated

Exposure Controls / Personal Protection: Skin and body protection  
Chemical Stability & Reactivity Information: Incompatibility  
Chemical Stability & Reactivity Information: Hazardous decomposition products  
Regulatory Information: US Federal Regulations