Product number: 301004



## **MATERIAL SAFETY DATA SHEET**

# 1. Product and Company Identification

Material name815 QRProduct number301004Revision date27-Feb-2006

Company information Brulin & Company, Inc.

P.O. Box 270

Indianapolis, IN 46206 US

www.Brulin.com

Emergency CHEMTREC 1-800-424-9300

General information Phone: 317-923-3211

Fax: 317-925-4596

## 2. Hazards Identification

Emergency overview CAUTION

Contact with this material can cause irritation to the skin, eyes and mucous membranes. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Potential short term health effects

Routes of exposure Inhalation. Skin contact. Eye contact

Eyes Avoid contact with eyes. This product may cause slight irritation to the eyes.

Skin Prolonged and/or repeated skin contact may result in mild irritation or redness.

**Inhalation** Prolonged or excessive inhalation may cause respiratory tract irritation.

**Ingestion** May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

Signs and symptoms Contact with eyes may cause irritation. redness Prolonged skin contact may cause skin

irritation. Cough. Discomfort in the chest. Ingestion may cause irritation to mucous

membranes.

# 3. Composition / Information on Ingredients

Hazardous component(s)	CAS#	Percent
Ethanolamine	141-43-5	< 10

## 4. First Aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin contact Wash with soap and water. Remove contaminated clothing. Launder contaminated

clothing before reuse.

**Inhalation** Move to fresh air. Get medical attention, if needed.

**Ingestion** If conscious, drink plenty of water. Get medical attention immediately.

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

# 5. Fire Fighting Measures

Flammable properties None known.

**Extinguishing media** 

**Suitable extinguishing media** Use any media suitable for the surrounding fires.

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1/5

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### 6. Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep unnecessary personnel away.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods for containment Stop the flow of material, if this is without risk.

Methods for cleaning up Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to

containers for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated

surface thoroughly.

## 7. Handling and Storage

**Handling** Avoid contact with skin and eyes.

Storage Keep container tightly closed. Keep at temperatures between 4 and 48°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/m3 TWA

Personal protective equipment

**Eye / face protection**Avoid contact with the skin and the eyes. Wear chemical goggles. or Safety glasses. **Respiratory protection**Not normally needed. If airborne concentrations are above the applicable exposure limits,

use NIOSH approved respiratory protection.

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

# 9. Physical & Chemical Properties

Appearance clear liquid
Clarity Not available

ColorblueFormLiquid.Odorcitrus

Odor thresholdNot availablePhysical stateLiquidpH11.7 - 12.9Melting point30 °FFreezing pointNot available

Freezing point Not available Boiling point 212 °F

Flash point > 212 °F Pensky-Martens Closed Cup

Material ID: 4910 Version #: 3 Revision date: 27-FEB-2006 Print date: 27-FEB-2006

Evaporation rate 1

Flammability limits in air, lower, %

by volume

Not available

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure 0.2 Mm Hg @68°F
Vapor density 2.1 Ethanolamine (Air=1)

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Specific gravity 1.067

Relative density Not available Solubility (H2O) 100 %

Octanol/H2O coeff
Auto-ignition temperature

Decomposition temperature

VOC (Weight %)

Not available
Not available
8.25 %

# 10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid Do not freeze.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition products 
At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Nitrogen

oxides (NOx).

## 11. Toxicological Information

Acute effects Acute LD50: 10268 mg/kg estimated, Rat, Oral

**Further information** Symptoms may be delayed.

## 12. Ecological Information

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

## 13. Disposal Considerations

Waste codes D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

**Disposal instructions** Dispose in accordance with all applicable regulations. This material and its container must

be disposed of as hazardous waste.

# 14. Transport Information

**Department of Transportation (DOT) Requirements** 

Basic shipping requirements:

Proper shipping name Corrosive liquids, n.o.s. (ETHANOLAMINE)

Hazard class 8

UN number UN1760
Packaging group III

Additional information:

Special provisions IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241ERG number154



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

Basic shipping requirements:

Proper shipping name Corrosive liquids, n.o.s. (ETHANOLAMINE)

Hazard class 8
UN number UN1760
Packaging group III

Additional information:

Special provisions IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241

#### **IATA**

Basic shipping requirements:

Proper shipping name Corrosive liquid, n.o.s. (ETHANOLAMINE)

Hazard class 8
UN number UN1760
Packaging group III

Additional information:

Packaging exceptions 154



**DOT NON-BULK** 

CORROS

#### **IMDG**

Basic shipping requirements:

Proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Hazard class 8
UN number UN1760
Packaging group III

Additional information:

Packaging exceptions 154



# 15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

CERCLA (Superfund) reportable quantity

None

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

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Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

### Inventory status

Country(s) or region Inventory name

Australia Australian Inventory of Chemical Substances (AICS)

No

Canada Domestic Substances List (DSL)

China Inventory of Existing Chemical Substances in China (CCS)

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



### NFPA codes



Prepared date
Superseded date

Disclaimer

27-Feb-2006 09:19:06

05-Jan-2006 10:51:51

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.