



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	FORMULA 815 MX SC
Product number	192017
Revision date	11-Dec-2007
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	Contact with this material can cause irritation to the skin, eyes and mucous membranes. May cause long-term adverse effects in the aquatic environment. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Potential short term health effects	
Eyes	This product may cause irritation to the eyes.
Skin	Prolonged skin contact may cause skin irritation.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion	May cause temporary irritation of the throat, stomach, and gastrointestinal tract.
Target organs	Eyes. Respiratory system. Skin.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Sodium metasilicate	6834-92-0	< 2.5
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 immediately.
Skin contact	Wash with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Ingestion	Do not induce vomiting. If conscious, drink plenty of water. If symptoms persist, get medical attention.
Notes to physician	Symptoms may be delayed.
General advice	Immediate medical attention is required. 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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6. Accidental Release Measures

Personal precautions	Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Never return spills in original containers for re-use. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean contaminated surface thoroughly.

7. Handling and Storage

Handling	Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes.
Storage	Keep container tightly closed. Keep out of the reach of children. Keep from freezing.

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 eye and skin irritation

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

Ethanolamine 141-43-5 3 Ppm TWA; 6 mg/m³ TWA

Personal protective equipment

Eye / face protection	Wear chemical goggles. or Safety glasses. or Face-shield.
Skin protection	Wear appropriate chemical resistant gloves.
Respiratory protection	Not normally needed. If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	clear liquid
Color	blue green
Form	liquid
Odor	citrus
Odor threshold	Not available
pH	12 - 12.5
Freezing point	Not available
Boiling point	100 °C estimated
Flash point	> 212 °F Pensky-Martens Closed Cup
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.151
Solubility (H₂O)	Not available
VOC (Weight %)	0.7 %

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 dioxide, carbon monoxide, oxides of sulfur and nitrogen.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Acute LD50: 7748 mg/kg, Rat, Oral Acute LD50: 45470 mg/kg, Rat, Dermal Causes burns.
Chronic effects	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
Further information	Symptoms may be delayed.

12. Ecological Information

Not available

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.
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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

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

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.

State regulations

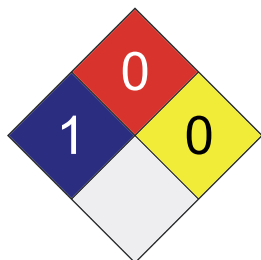
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B

NFPA codes



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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.