Product number: 192017



SAFETY DATA SHEET

1. Identification			
Product identifier	FORMULA 815 MX SC		
Other means of identification Product number	192017		
Recommended use	Cleaner/Degreaser		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name Address	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 United States		
Telephone	Phone: Fax:	317-923-321 317-925-459	
Website	www.Brulin.com		
Emergency phone number	CHEMTREC	1-800-424-93	300
2. Hazard(s) identification	l		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Not classified
	Acute toxicity, dermal		Not classified
	Skin corrosion/irritation		Category 1C
	Serious eye damage/eye irrita	tion	Category 1
	Sensitization, skin		Category 1
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Causes severe skin burns and eye damage. May cause an allergic skin reaction.		
Prevention	Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling.		
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
Storage	Store locked up. Store away from incompatible materials. Keep out of the reach of children.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None known.		

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3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	% by weight
Nonylphenol Ethoxylate	9016-45-9	5 - <10
Tetrapotassium Pyrophosphate	7320-34-5	5 - <10
Ethanolamine	141-43-5	1 - <5
Sodium metasilicate	6834-92-0	1 - <5
d-Limonene (Terpene Hydrocarbon)	5989-27-5	0.1 - <1

4. First-aid measures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Notes to physician	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance, if not at hospital. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
7. Handling and storage		
Precautions for safe handling	Do not breathe mist or vapor. Do not get this material in contact with skin. Do not get this material in contact with eyes. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	

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Conditions for safe storage, Store locked up. Keep container tightly closed. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

US. ACGIH Threshold Lim		
Components	Туре	Value
Ethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
Control parameters		
US. OSHA Table Z-1 Limit	s for Air Contaminants (29 CFR 1910.	•
Components	Туре	Value
Ethanolamine (CAS 141-43-5)	PEL	6 mg/m3
		3 ppm
Appropriate engineering controls		ntilation to maintain worker exposure below exposure limits. Ey ver must be available when handling this product.
ndividual protection measure	s, such as personal protective equip	ment
Eye/face protection	Wear safety glasses with side shield	ds (or goggles) and a face shield.
Skin protection		
Hand protection	Wear appropriate chemical resistan	t gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
9. Physical and chemica	l properties	
Appearance	clear	
Form	Liquid.	

Form	Liquia.
Color	blue green
Odor	citrus
Odor threshold	Not available.
рН	12 - 12.5
Melting point/freezing point	32 °F (0 °C)
Boiling point	212 °F (100 °C)
Flash point	None to boiling.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Solubility(ies)	

100 %

Solubility (water)

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Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Specific gravity	1.14
VOC (Weight %)	3.5 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Toxicological data		
Product	Test Results	
FORMULA 815 MX SC (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg	
	Acute Oral LD50 Rat: > 5000 mg/kg	
Information on likely routes of e	exposure	
Eye contact	Causes serious eye damage.	
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.	
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.	
Ingestion	Causes digestive tract burns.	
Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
US. OSHA Specifically Reg	<pre>/drocarbon) (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans. ulated Substances (29 CFR 1910.1001-1050)</pre>	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.	
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.	
Toxicological information	Occupational exposure to the substance or mixture may cause adverse effects.	
12. Ecological information	1	
Ecotoxicity	Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.	

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Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN2491
UN proper shipping na	me Ethanolamine or Ethanolamine solutions
Transport hazard class	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
	r user Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T4, TP1
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN2491
UN proper shipping na	me Ethanolamine
Transport hazard class	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	s No.
ERG Code	8L
Special precautions fo	r user Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and ca	rgo Allowed.
aircraft	
Cargo aircraft only	/ Allowed.
60 L	
A3,A803	
IMDG	
UN number	UN2491
UN proper shipping na	
Transport hazard class	s(es)
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	6
Marine pollutant	No.

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 EmS
 F-A, S-B

 Special precautions for user
 Read safety instructions, SDS and emergency procedures before handling.

 DOT



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

CERCLA (Superfund) reportable quantity

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Ethanolamine (CAS 141-43-5)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

- Ethanolamine (CAS 141-43-5)
- US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-26-2015
Version #	01
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. 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.