Product number: 301004



SAFETY DATA SHEET

1. Identification

Product identifier

815 QR

Other means of identification

Product number

301004

Recommended use

Cleaner/Degreaser

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Brulin & Company, Inc.

Address

P.O. Box 270

Indianapolis, IN 46206

United States

Telephone

Phone:

317-923-3211

Fax:

317-925-4596

Website

www.Brulin.com

CHEMTREC

1-800-424-9300

2. Hazard(s) identification

Emergency phone number

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral

Not classified Not classified

Acute toxicity, dermal Skin corrosion/irritation

Category 1C

Serious eye damage/eye irritation

Category 2A

Sensitization, skin

Category 1

Carcinogenicity

Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes severe skin burns and eye damage. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer.

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Wear safety glasses with side shields (or goggles). Do not breathe mist or vapor. Wash hands thoroughly after handling. Wear protective

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Do not freeze.

Keep out of the reach of children.

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Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	% by weight 5 - <10	
Ethanolamine	141-43-5		
Coconut Oil Acid Diethanolamine	68603-42-9	1 - <5	
Nonylphenol Ethoxylate	9016-45-9	1 - <5	
Diethanolamine	111-42-2	0.1 - <1	
d-Limonene (Terpene Hydrocarbon)	5989-27-5	0.1 - <1	

4. First-aid measures

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if irritation develops and persists.

Skin contactWash with plenty of soap and water. If skin irritation or rash occurs; Get medical advice/attention.

Wash contaminated clothing before reuse. Chemical burns must be treated by a physician.

Ingestion Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

Dermatitis. Rash. May cause respiratory tract irritation.

General information

If exposed or concerned: get medical attention/advice. 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

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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. Ensure adequate ventilation. Do not breathe mist or vapor. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS. Local authorities should be advised if significant spillages cannot be contained.

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.

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7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Handle and open container with care. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not breathe mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Do not mix with other chemicals. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs. Keep at temperatures between 4 and 49C. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Ethanolamine (CAS 141-43-5)	STEL	6 ppm	
141-43-5)	TWA	3 ppm	
trol parameters			

Control parameters

US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Ethanolamine (CAS 141-43-5)	PEL	6 mg/m3
141-40-0)		3 ppm

Appropriate engineering

controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective 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 chemical properties

Appearance clear **Form** Liquid. Color blue Odor citrus Odor threshold Not available.

11.9 - 12.830 °F (-1.11 °C) Melting point/freezing point **Boiling point** 212 °F (100 °C) Flash point None to Boiling

Evaporation rate

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Material name: 815 QR

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Flammability limit - upper

(%)

Not available.

Vapor pressure

0.2 mm Hg @68°F

Vapor density

2.1 Ethanolamine (Air=1)

Solubility(ies)

Solubility (water)

100 %

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature
Decomposition temperature

Not available.

Not available.

Viscosity

Water-thin

Specific gravity

1.07

VOC (Weight %)

8.3 %

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

Contact with incompatible materials. Do not freeze. Do not mix with other chemicals.

Incompatible materials

Oxidizing agents. Acids. Nitrous acid and other nitrosating agents

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Toxicological data

Product Test Results

815 QR (Mixture)

Acute Dermal LD50 Rabbit: > 5000 mg/kg

Acute Oral LD50 Rat: > 5000 mg/kg

F

Information on likely routes of exposure

Eye contact

Causes serious eye irritation.

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

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 irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin

reaction. Dermatitis. Rash. May cause respiratory tract irritation.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Coconut Oil Acid Diethanolamine (CAS 68603-42-9) Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.

d-Limonene (Terpene Hydrocarbon) (CAS 5989-27-5)

3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Material name: 815 QR 4910 Version #: 05 Revision date: 03-09-2015 Issue date: 08-06-2014

Product number: 301004

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged

exposure may cause chronic effects.

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

Ecotoxicity Toxic to aquatic life.

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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 name

Transport hazard class(es)

Ethanolamine or Ethanolamine solutions

Class 8
Subsidiary risk Label(s) 8
Packing group III

Environmental hazards

Marine pollutant No

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

Special provisions IB3, T4, TP1

Packaging exceptions154Packaging non bulk203Packaging bulk241

IATA

UN number UN2491
UN proper shipping name Ethanolamine

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

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

Material name: 815 QR 4910 Version #: 05 Revision date: 03-09-2015 Issue date: 08-06-2014

Product number: 301004

Other information

Passenger and cargo

aircraft

Cargo aircraft only

Allowed.

Allowed.

60 L A3,A803

IMDG

UN number

UN2491

UN proper shipping name

ETHANOLAMINE or ETHANOLAMINE SOLUTION

Transport hazard class(es)

Class

Subsidiary risk Packing group

Environmental hazards

Marine pollutant

No

F-A. S-B

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

DOT



IATA; IMDG



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)

Diethanolamine (CAS 111-42-2)

Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA (Superfund) reportable quantity

Diethanolamine: 100

Material name: 815 QR

Product number: 301004

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

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Diethanolamine	111-42-2	0.1 - <1	

Other federal regulations

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

Diethanolamine (CAS 111-42-2)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Diethanolamine (CAS 111-42-2) Ethanolamine (CAS 141-43-5)

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

Diethanolamine (CAS 111-42-2)

500 LBS

US. Pennsylvania RTK - Hazardous Substances

Diethanolamine (CAS 111-42-2) Ethanolamine (CAS 141-43-5)

US. Rhode Island RTK

Diethanolamine (CAS 111-42-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Coconut Oil Acid Diethanolamine (CAS 68603-42-9) Listed: June 22, 2012 Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Material name: 815 QR

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Country(s) or region

Inventory name

On inventory (yes/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

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

Issue date

08-06-2014

Revision date

03-09-2015

Version #

05

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.

Material name: 815 QR