

BRULIN AND CO INC -- FORMULA 815 MX -- 6850-00-753-4548

===== Product Identification =====

Product ID:FORMULA 815 MX

MSDS Date:08/30/1999

FSC:6850

NIIN:00-753-4548

MSDS Number: BWSFS

=== Responsible Party ===

Company Name:BRULIN AND CO INC

Address:2920 DR ANDREW J BROWN AVE

Box:270

City:INDIANAPOLIS

State:IN

ZIP:46205-0270

Country:US

Info Phone Num:317-923-3211 OR 800-776-7149

Emergency Phone Num

:(800)424-9300

Resp. Party Other MSDS Num.:PRODUCT NUMBER: 111005

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:94058

=== Contractor Identification ===

Company Name:BRULIN AND CO INC

Address:2920 DR ANDREW J BROWN AVE

Box:270

City:INDIANAPOLIS

State:IN

ZIP:46205-0270

Country:US

Phone:317-923-3211

Contract Num:SP0450-01-M-D809

CAGE:94058

Company Name:BRULIN AND CO INC

Address:2920 DR ANDREW J BROWN AVE

Box:270

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ZIP:46205-0270

Country:US

Phone:317-923

-3211
Contract Num:SP0450-99-M-C354
CAGE:94058

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Composition/Information on Ingredients
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Ingred Name:ETHANOLAMINE/2-AMINOETHANOL/MONOETHANOLAMINE
CAS:141-43-5
RTECS #:KJ5775000
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NOT PROVIDED
OSHA PEL:3 PPM
ACGIH TLV:3 PPM
ACGIH STEL:6 PPM

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Hazards Identification
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LD50 LC50 Mixture:NOT PROVIDED
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity
:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE AND CHRONIC: EYE - DIRECT
CONTACT MAY CAUSE IRRITATION. INGESTION - MAY CAUSE
GASTROINTESTINAL IRRITATION AND IRRITATION OF MOUTH AND THROAT. SKIN
- PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION. INHALATION -
EXCESSIVE EXPOSURE MAY CAUSE RESPIRATORY IRRITATION.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYE CONTACT MAY CAUSE IRRITATION, SEEN AS
REDNESS AND SWELLING. PROLONGED SKIN CONTACT
MAY CAUSE IRRITATION,
SEEN AS REDNESS. EXCESSIVE INHALATION OF MISTS MAY BE IRRITATING
AND CAUSE COUGHING AND DISCOMFORT IN THE NOSE THROAT AND CHEST.
INGESTION MAY CAUSE PAIN OR DISCOMFORT IN THE MOUTH, THROAT, AND
STOMACH.
Medical Cond Aggravated by Exposure:ETHANOLAMINE MAY AGGRAVATE ASTHMA
AND INFLAMMATORY FIBROTIC PULMONARY DISEASE. MAY ALSO AGGRAVATE AN
EXISTING DERMATITIS.

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First Aid Measures
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First Aid:EYE CONTACT

: FLUSH WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES LIFTING UPPER & LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION. INHALATION: IF AFFECTED, REMOVE TO FRESH AIR. SKIN CONTACT: WASH WITH MILD SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. INGESTION: IF CONSCIOUS, DILUTE BY GIVING AT LEAST TWO GLASSES OF WATER. CALL A PHYSICIAN OR LOCAL POISON CONTROL CENTER IMMEDIATELY.

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Fire Fighting Measures
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Flash Point:NONE
Fire Fighting Procedures:NONE
Unusual Fire/Explosion Hazard:NONE

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Accidental Release Measures
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Spill Release Procedures:ABSORB ON SOLID ABSORBENT AND SHOVEL INTO CONTAINERS FOR DISPOSAL.
Neutralizing Agent:NOT PROVIDED

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Handling and Storage
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Handling and Storage Precautions:STORE BETWEEN 40 AND 120F.
Other Precautions:NOT PROVIDED

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Exposure Controls/Personal Protection
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Respiratory Protection:NOT NORMALLY REQUIRED. USE NIOSH-MSHA APPROVED RESPIRATOR IF TLV OF ETHANOLAMINE IS EXCEEDED.
Ventilation:MECHANICAL (GENERAL): NORMALLY SUFFICIENT
Protective Gloves:NEOPRENE OR BUTYL RUBBER ON PROLONGED CONTACT.
Eye Protection:GOGGLES OR SAFETY GLASSES WHEN HANDLING CONCENTRATE.
Other Protective Equipment:NONE
Work Hygienic Practices:AVOID BREATHING SPRAY MIST.
Supplemental Safety and Health
PRODUCT NUMBER: 111005. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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Physical/Chemical Properties
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HCC:B2
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:=100.C, 212.F
Melt/Freeze Pt:=-1.1C, 30.F
M.P/F.P Text:APPROX.
Decomp Temp:Decomp Text:NOT PROVIDED
Vapor Pres:0.2 @ 68F
Vapor Density:2.1
Spec Gravity:1.076
pH:12.0
VOC Grams/Liter:8.94
Viscosity:WATER- THIN
Evaporation Rate & Reference:1.0 (WATER=1)

Solubility in Water:COMPLETE
Appearance and Odor:BLUE GREEN LIQUID - CITRUS ODOR
Percent Volatiles by Volume:NOT PROVIDED
Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS AND ACIDS.
Stability Condition to Avoid:FREEZING
Hazardous Decomposition Products:THERMAL DECOMPOSITION CAN PRODUCE
CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES.

===== Toxicological Information ==
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Toxicological Information:NOT PROVIDED

===== Ecological Information =====

Ecological:NOT PROVIDED

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF ACCORDING TO FEDERAL, STATE, AND
LOCAL LAWS AND 40 CFR.

===== MSDS Transport Information =====

Transport Information:NOT PROVIDED

===== Regulatory Information =====

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Title III Information:NOT PROVIDED
Federal Regulatory Information:NOT PROVIDED
State Regulatory Information:NOT PROVIDED

===== Other Information =====

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