

MATERIAL SAFETY DATA SHEET

Section 1. Chemical product and company identification

Product Name:	AMEREX Class A Foam Concentrate
Synonym:	Synthetic Detergent Foam; Amerex 21543
Chemical Name:	N/A This product is a mixture
C.A.S No.:	N/A This product is a mixture
Chemical Formula:	N/A This product is a mixture
EINECS Number:	N/A This product is a mixture

Use of this product: The intended use of this product is as a fire extinguishing agent.

Manufactured For:Amerex CorporationInternet Address:www.amerex-fire.comAddress:7595 Gadsden HighwayBirmingham, AL 35173-0081

Telephone: (205) 655-3271

Emergency Contacts: Chemtrec: (800) 424-9300 or

(703) 527-3887

Revised: July 2012

Section 2. Hazard identification and emergency overview

Human Exposure:

Product:

EU Classification: Xi Irritant

R Phrases:

S Phrases: 2 Keep out of reach of children

7 Keep container tightly closed

24 Avoid contact with skin

In case of contact with eyes, rinse immediately with copious

amounts of water and seek medical advice.



Components:

Diethylene Glycol Monobutyl Ether:

EU Classification Xi Irritant

R Phrases 36 Irritating to eyes

S Phrases 2 Keep out of reach of children

24 Avoid skin contact

In case of contact with eyes, rinse immediately with copious

amounts of water and seek medical advice

Ethanol (Ethyl Alcohol):

EU Classification F Flammable

R Phrases 11 Highly Flammable

S Phrases 2 Keep out of reach of children

7 Keep container tightly closed

16 Keep away from sources of ignition – No smoking

Limit Values for Exposure:

Diethylene Glycol Monobutyl Ether:

OSHA PEL (General Industry) 8 hour TWA: None established

MAK (DE) Limit Value: 100 mg/m³

Short term exposure limit value

(8 times, 5 minutes): 200mg/m³

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA: 1000 ppm

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³)

Neither this product nor any of the ingredients contained in it have been listed as carcinogenic by the National Toxicology Program IARC, or OSHA. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to chemical substances and ensure prompt removal from skin, eyes, and clothing.



Signs and Symptoms:

Acute Exposure:

Eye Contact: May cause mild to moderate transient irritation

Skin Contact: May cause mild transient irritation and/or dermatitis

Inhalation: Not a normal route of entry

Ingestion: Irritating to mucous membranes

Chronic Overexposure: Possible systemic and motor disorders, diethethylene glycol

monobutyl ether did not interfere with reproduction; however,

body weights of newborn animals were decreased.

Medical conditions generally aggravated by exposure: Diseases of the kidney and liver.

For Environment: As much as possible, keep from being washed into surface

water.

Section 3. Composition/information on ingredients

Ingredient Name: Proprietary mixture consisting of sodium and ammonium salts of fatty

alcohol ether sulfates (C8-C18), higher alcohols, inorganic salts and

water

C.A.S. No.: N/A - This is a mixture

Concentration, Wt. %: <30%

Hazard Classification: See section 2

Ingredient Name: Diethylene Glycol Monobutyl Ether

Chemical Formula: $C_4H_9O(CH_2CH_2O)_2H$

C.A.S. No.: 112-35-5 **EINECS Number:** 230-961-6

Concentration, Wt.%: 8%



Hazard Classification: See section 2

Ingredient Name: Ethanol (Ethyl Alcohol)

Chemical Formula: (CH₃)₃CH₂OH

C.A.S. No.: 64-17-5

EINECS Number: 200-578-6

Concentration Wt.%: 3.5%

Hazard Classification: See section 2

Section 4. First aid measures

Eye Exposure: Irrigate eyes at eye wash station and repeat until pain free. Seek medical

attention immediately.

Skin Exposure: In case of contact, wash with plenty of soap and water. If irritation persists seek

medical attention.

Inhalation: If respiratory irritation or distress occurs remove victim to fresh air. Provide

oxygen if breathing is difficult. Seek medical attention if irritation develops or

persists.

Ingestion: Do not induce vomiting. If victim is alert, give liquids such as milk or water. Seek

immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.

Medical conditions possibly aggravated by exposure: Inhalation of product may aggravate existing chronic respiratory conditions.

Section 5. Firefighting measures

This product is an extinguishing media. No special protective equipment is required for fire fighters. Insensitive to mechanical impact or static discharge.

HMIS (hazardous materials identification system) rankings (as liquid): health = 3, flammability = 0, reactivity = 0, personal protective equipment: eye and skin protection (see Section 8).



Section 6. Accidental release measures

For personal protection: Prevent skin and eye contact, see Heading 8.

Clean up: Use an absorbent material, to include but not be limited to, diatomaceous earth, kitty litter, or

saw dust, and sweep up. See Heading 12

Section 7. Handling and storage

Avoid eye, respiratory, and skin exposure. Use appropriate PPE (personal protective equipment) when handling, and wash thoroughly after handling (Section 8). Keep product in original container until packaging for use as extinguisher. Clean used equipment before storage. Use this product only in well ventilated areas. Do not mix with other extinguishing agents.

Section 8. Exposure controls/ personal protection

Respiratory protection:

None expected to be needed, mechanical ventilation is recommended

Hand Protection:

Use chemical resistant gloves when handling the product

Eye protection:

Chemical goggles are recommended

Skin protection:

Standard fire-fighting equipment should provide all necessary protection

Section 9. Physical and chemical properties

Appearance: Clear liquid slight straw color; mild sweet odor

Solubility: Completely soluble in water

Flammability: Non -flammable Flash point: Does not flash

Vapor density (Air = 1): Not determined, but <1

Explosive properties: Not explosive **Oxidizing properties**: Not an oxidizer **Relative density**: About 1 (Water = 1)

pH: 7.0 to 8.5

Boiling point: ~ 220° F



Section 10. Stability and reactivity

Stability: stable

Incompatibles: Reactive metals, electrically energized equipment, any material reactive with water and

strong oxidizers

Conditions to avoid: There are no known conditions which may cause a dangerous reaction.

Section 11: Toxicological Information

Product: The toxicity of the product mixture has not been determined

Components:

Diethylene Glycol Monobutyl Ether

Toxicity Data: Oral (rat) LD_{50} 5,660 mg/kg

Oral (rat) LD₅₀ 9,626 mg/kg (EINECS ESIS)

Dermal (rabbit) LD₅₀ 4,000 mg/kg

Dermal (rabbit) LD₅₀ 2,764 mg/kg (EINECS ESIS)

Irritation Data: Eye (rabbit) 20 mg/day Moderate (EINECS ESIS)

Eye (rabbit) Highly irritating(EINECS ESIS)

Skin (rabbit) 1000 mg/kg/day Moderate with edema,

fissuring, leathery appearance (EINECS ESIS)

Target organs: Kidney, blood, liver, lungs, gastrointestinal, spleen

Section 12. Ecological information

Ecotoxicity: Components:

Diethylene Glycol Monobutyl Ether

Fish Lepomis marcrochinus: LC₅₀ (96 hrs.) 1,300 mg/L

Carassius auratus: LC_{50} (24 hrs.) 2,700 mg/L Daphnids, Daphnia magna: EC_{50} 24 hrs.) 3,184 mg/L Algae, Scenedesmus subspicatus: EC_{50} (96 hrs.) >100 mg/L

Ethanol:

Fish, Oncorhynchus mykiss: LC₅₀ (24 hrs.) 11,200 mg/L

Albumus albumus: LC_{50} (96 hrs.) 11,000 mg/L Daphnids, Daphnia magna: EC_{50} (24 hrs.) 10,800 mg/L

Mobility

Diethylene Glycol Monobutyl Ether

Should not partition from a water column to organic matter contained in sediments and



suspended solids.

Ethanol:

Its low octanol/water partition coefficient indicates that its absorption to soil will be low.

Persistence/ Degradability:

Diethylene glycol monobutyl ether:

Indirect photodegradation is about 50% in 3.5 hours

Aerobic degradation with adapted activated sludge is 60% after 28 days

COD = 2080 mg/g of substance $BOD_5 = 250 \text{ mg } O_2/g \text{ substance}$

Theoretical oxygen demand = 2.17 mg/mg

Ethanol:

Indirect photodegeneration is about 50% in 6 hours.

Aerobic degradation with adapted activated sludge is 74% after 5 days.

COD = 1700 mg/g substance

 $Bod_5 = 0.8 \text{ kg/L}$

Bioaccumulation:

Diethylene glycol monobutyl ether: Should not bioaccumulate.

Ethanol: Will not bioaccumulate.

Section 13. Disposal considerations

As much as possible, keep from being washed into surface water, see Heading 12. Dispose of in compliance with national, regional, and local provisions that may be in force.

Section 14. Transportation information

This product is not a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, and is not regulated by the DOT, IMO, IATA, RID/ADR, or Canada's TDG.

Section 15. Regulatory information

Product:

EU Classification: Xi Irritant

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amounts of water and seek medical advice.

Limit Values for Exposure:

Diethylene Glycol Monobutyl Ether:

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MAK (DE) Limit Value: 100 mg/m³

Short term exposure limit value

(8 times, 5 minutes): 200mg/m³

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA: 1000 ppm

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³)

State regulatory information:

Chemicals in this product under specific State regulations, as denoted below:

California - Permissible Exposure Limits for Chemical Contaminants: None Florida - Substance List: None

Florida – Substance List: None

Massachusetts - Substance List: None

Minnesota - List of Hazardous Substances: None

New Jersey - Right to Know Hazardous Substance List: None

Pennsylvania: Hazardous Substance List: None

California Proposition 65: No component is listed on the California Proposition 65 list or the No Significant

Risk Level List.

Section 16. Other information

This MSDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the 2003 ANSI Z400.1 format.

The information herein is given in good faith to be correct but does not claim to be all inclusive and shall be used only as a guide. Amerex Foam Products or Amerex Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.