SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AMEREX 3x6% ATC Foam Concentrate
Other Identifiers: AMEREX 3x6%, Amerex 3x6 AR-AFFF
Product Code(s): CH502/504/534
Model Code(s) for Extinguishers: 250, 254, 630
Recommended Use: Fire suppression agent, liquid concentrate.
Manufacturer: AMEREX CORPORATION
Internet Address: www.amerex-fire.com
Address: 7595 Gadsden Highway, P.O. Box 81
Trussville, AL 35173-0081
Company Telephone: (205) 655-3271
E-mail Address: info@amerex-fire.com
Emergency Contacts: Chemtrec 1(800) 424-9300 or
(703) 527–3887
Revised: March 7, 2019

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Category 4</td>
<td>None</td>
<td>Warning</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation: Category 2</td>
<td>None</td>
<td>Warning</td>
</tr>
<tr>
<td>Skin Sensitization: 1</td>
<td>None</td>
<td>Warning</td>
</tr>
<tr>
<td>Eye: Category 2A</td>
<td>None</td>
<td>Warning</td>
</tr>
<tr>
<td>STOT (Single Exposure) – Category 1 (CNS, Blood System, Kidney)</td>
<td>None</td>
<td>Danger</td>
</tr>
<tr>
<td>STOT (Repeated Exposure) – Category 1 (CNS, Respiratory System, Heart, Liver)</td>
<td>None</td>
<td>Danger</td>
</tr>
<tr>
<td>Carcinogen: Category None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

GHS – Label Symbol(s):

If Pressurized: Gas Under Pressure

GHS – Signal Word(s):

Danger

Other Hazards Not Resulting in Classification: None
**GHS – Hazard Phrases**

<table>
<thead>
<tr>
<th>GHS Hazard</th>
<th>GHS Codes(s)</th>
<th>Code Phrase(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>H229</td>
<td>* - Contents under pressure; may explode if heated.</td>
</tr>
<tr>
<td>Health</td>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td></td>
<td>315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td></td>
<td>319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td></td>
<td>370</td>
<td>Causes damage to organs.</td>
</tr>
<tr>
<td></td>
<td>372</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Environmental</td>
<td>H401</td>
<td>Toxic to aquatic life.</td>
</tr>
</tbody>
</table>

**Precautionary:**

- **General**
  - P101 If medical advice is needed, have product container or label at hand.

- **Prevention**
  - P240 Do not pierce or burn, even after use.
  - 261 Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]
  - 264 Wash skin thoroughly after handling
  - 270 Do not eat, drink or smoke when using this product.
  - 273 Avoid release to the environment.
  - 280 Wear protective gloves/protective clothing/eye protection/face protection.

- **Response**
  - P312 Call a doctor if you feel unwell.
  - 321 Specific treatment (see Section 4. First Aid Measures).
  - 362 Take off contaminated clothing. [As modified by IV ATP]
  - 391 Collect spillage.
  - 301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. [As modified by IV ATP]
  - 302+352 IF ON SKIN: Wash with plenty of water.
  - 304+312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
  - 304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - 305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
  - 332+313 IF skin irritation occurs: Get medical advice/attention.
  - 337+313 If eye irritation persists get medical advice/attention.

- **Storage**
  - P410+403 * - Protect from sunlight. Store in well-ventilated place.

- **Disposal**
  - P501 Dispose of contents through a licensed disposal company. Contaminated container should be disposed of as unused product.

* - If under pressure

**Section 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>REACH Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>203-961-6</td>
<td>NA</td>
<td>112-34-5</td>
<td>5-15</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>205-535-5</td>
<td>NA</td>
<td>142-31-4</td>
<td>1-5</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>263-058-8</td>
<td>NA</td>
<td>61789-40-1</td>
<td>1-10</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>203-473-3</td>
<td>NA</td>
<td>107-21-1</td>
<td>1-5</td>
</tr>
<tr>
<td>Non-hazardous ingredients</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>60-90</td>
</tr>
</tbody>
</table>

Adverse health effects and symptoms:

Causes severe eye damage. Causes skin irritation. Symptoms may include coughing, shortness of breath, redness of skin, eye pain, nausea, abdominal pain, weakness, dizziness, CNS depression.
Section 4. FIRST AID MEASURES

Eye Exposure: Causes irritation. First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.

Skin Exposure: Causes skin irritation. Immediately flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If symptoms such as redness or irritation develop, immediately call a physician and be prepared to transport the victim to a hospital for treatment.

Inhalation: Immediately leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere.

Ingestion: Overdose symptoms may include feeling faint or dizzy, nausea, general weakness, or seizure (convulsions). Rinse mouth and throat. Do not induce vomiting. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and immediately call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physician. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. IMMEDIATELY transport the victim to a hospital.

Medical conditions possibly aggravated by exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease.
Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Not flammable
Flash Point: Not determined
Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable for surrounding conditions.
Hazardous Combustion Products: Under certain extreme conditions there may be a release of toxic and/or corrosive gases: oxides of nitrogen, oxides of carbon, oxides of sulfur, hydrogen fluoride.

Explosion Data:
   Sensitivity to Mechanical Impact: Not sensitive
   Sensitivity to Static Discharge: Not sensitive
   Unusual fire/explosion hazards: See above – Hazardous Combustion Products

Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent), and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For minor spills: Avoid contact with skin, eyes, and clothing. Ensure area is well-ventilated.
For large spills: Only trained personnel should conduct clean-up. Follow directions below.

Personal Protective Equipment:
Minimum - safety glasses, impermeable gloves, coveralls, long sleeve shirts.
For large spills: Splash resistant safety goggles, impermeable gloves, coveralls, long sleeve shirt, air purifying respirator (See Section 8).

Emergency Procedures: NA
Methods for Containment: Wear proper personal protective equipment. Prevent further leakage or spillage if safe to do so.
Methods for Clean Up: Clean up released material using sorbent materials.
Bag and drum for disposal; properly label containers; dispose as required by local, state, and federal regulations. Decontaminate area with detergent and water.

Environmental Precautions: Prevent entry into water ways, sewers, basements, and confined areas. Dispose of waste according to legislative requirements.
Section 7. HANDLING AND STORAGE

Personal Precautions: Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).

Conditions for Safe Storage/Handling: Keep product in original container or extinguisher. Prevent falling. Do not allow near heat sources. Contents may be under pressure – inspect extinguisher consistent with product labeling to ensure container integrity.

Incompatible Products: Incompatible with strong oxidizing agents and strong acids. Electrically energized equipment.

Hazardous Decomposition Products: Carbon oxides.

Hazardous Polymerization: Will not occur.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>DFG MAK *</th>
<th>EU BLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>NA</td>
<td>TWA 10 ppm</td>
<td>TWA 10 ppm: 67 mg/m³</td>
<td>NA</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>Vacated</td>
<td>100 mg/m³ ceiling aerosol only</td>
<td>TWA 20 ppm: 52 mg/m³</td>
<td>NA</td>
</tr>
</tbody>
</table>

*German regulatory limits *** NR = Not Regulated. All values are 8 hour time weighted average concentrations.

Engineering Controls: Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment – PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.
Eye/Face Protection: Tightly fitting safety goggles
Skin and Body Protection: Wear protective gloves, and coveralls or long sleeve shirt.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use air-purifying respirator (APR) for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures: Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Light yellow liquid</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild, sweet</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature °C:</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point °C:</td>
<td>-2</td>
</tr>
<tr>
<td>Initial Boiling Point °C:</td>
<td>No information available</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH:</td>
<td>7 – 8.5</td>
</tr>
<tr>
<td>Flash Point °C:</td>
<td>None</td>
</tr>
<tr>
<td>Autoignition Temperature °C:</td>
<td>None</td>
</tr>
<tr>
<td>Boiling Point/Range °C:</td>
<td>100</td>
</tr>
<tr>
<td>Melting Point/Range °C:</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Flammability Limits in Air °C:</td>
<td>Upper – Not Flammable; Lower-Not Flammable</td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td>None</td>
</tr>
</tbody>
</table>
Oxidizing Properties: None
Volatile Component (%vol) Not Applicable
Evaporation Rate: Not Applicable
MMHG @ 37.8°C Not Applicable
Vapor Density: Not Applicable
Vapor Pressure: 2.4 kPa at 20°C
Specific Gravity: Approximately 1.01 – 1.02
Solubility: No information available
Partition Coefficient: No Information Available
Viscosity: No Information Available

Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.
Reactivity: No hazardous reactions under normal handling and storage.
Incompatibles: Strong oxidizing agents; water-reactive materials; electrically energized equipment.
Conditions to Avoid: Storage or handling near incompatibles.
Hazardous Decomposition Products: Carbon, nitrogen, and potassium oxides, CO2. Heat of fire may release carbon monoxide.
Possibility of Hazardous Reactions: Under certain extreme conditions there may be a release of toxic and/or corrosive gases: oxides of nitrogen, oxides of carbon, oxides of sulfur, hydrogen fluoride.
Hazardous Polymerization: Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin and eye contact.
Symptoms:
   Immediate:
      Inhalation: Slight irritation, coughing.
      Eyes: Serious irritation and damage.
      Skin: Mild irritation.
   Delayed: Symptoms appear to be relatively immediate
Acute Toxicity: Relatively non-toxic.
Chronic Toxicity:

**Acute Toxicity Values - Health**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 (Inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>&gt;5660 mg/kg (rat)</td>
<td>2700 mg/kg (rabbit)</td>
<td>None</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>3200 mg/kg (rat)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>4190 mg/kg (rat)</td>
<td>4900 mg/kg (rabbit)</td>
<td>None</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>4900 mg/kg (rat)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1,2-Propylene glycol</td>
<td>20 g/kg (rat)</td>
<td>20800 mg/kg (rabbit)</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>4700 mg/kg (rat)</td>
<td>10600 mg/kg (rabbit)</td>
<td>124.7 mg/L 4h (rat)</td>
</tr>
</tbody>
</table>

**Reproductive Toxicity:**

Ethylene glycol – Category 1B - Based on the description in the report on mouse continuous breeding and rat teratogenicity tests (CICAD 45 (2002)): Malformations, retarded ossification and unossification are observed in offspring at dosing levels not toxic to dams.

**Target Organs and Effects (TOST):**

Respiratory system (mild irritant). Mild irritant to skin. Damaging and very irritating to the eyes. Possible sensitization of skin by Cocamidopropyl Betaine.

**Other Toxicity Categories**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Germ Cell Mutagenicity</th>
<th>Carcinogenicity</th>
<th>Reproductive</th>
<th>TOST Single Exp</th>
<th>TOST Repeated Exp</th>
<th>Aspiration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>3 (Narcotic)</td>
<td>1 (Respiratory system, Liver)</td>
<td>None</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>3</td>
<td>3 (Lungs)</td>
<td>None</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>None</td>
<td>Group 3 IARC</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>3 (Lungs)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>None</td>
<td>A3 ACGIH OSHA NTP</td>
<td>1B</td>
<td>1 CNS, Blood system, kidneys; 3 Respiratory system</td>
<td>1 CNS, Respiratory system, heart</td>
<td>None</td>
</tr>
</tbody>
</table>

**Ecotoxicity:**

Moderate risk.

**Persistence/Degradability:**

Degradates rapidly.

*Probability of rapid biodegradation:

- DGBE: Est= 0.2428, Slow
- SOS: Est= 0.7559, Rapid
- CB: Est= 0.9753, Rapid
- EG: Est= 1.0355

*Anaerobic biodegradation probability:

- DGBE: Est= 0.2390, Slow

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Section 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Moderate risk.

**Persistence/Degradability:**

Degradates rapidly.

*Probability of rapid biodegradation:

- DGBE: Est= 0.2428, Slow
- SOS: Est= 0.7559, Rapid
- CB: Est= 0.9753, Rapid
- EG: Est= 1.0355

*Anaerobic biodegradation probability:

- DGBE: Est= 0.2390, Slow
SOS: Est= 0.6207, Rapid
CB: Est= -0.1753
EG: Est= 1.1536

*Bioaccumulation:
DGBE: Est= 1.12
SOS: Est= 1.055
CB: Est= 1.231
EG: Est= 0.894

*Bioconcentration factor:
DGBE: Est= 3.162 L/kg
SOS: Est= 3.262 L/kg
CB: Est= 70.79 L/kg
EG: Est= 3.162 L/kg

*Mobility in soil (Log Koc-MCI Method)
DGBE: Est= 1.000
SOS: Est= 2.461
CB: Est= 2.811
EG: Est= 0.000

*Log Octanol-Water Partition Coefficient (KOWWIN)
DGBE: 0.29
SOS: -0.27
CB: 0.69
EG: -1.20

*Log Koc (Kow Method)
DGBE: 0.642
SOS: 0.937
CB: 0.425
EG: -0.650

*Log Koa:
DGBE: 7.0917
SOS: 5.345
CB: 19.287
EG: 4.250

*Log Kaw (HenryWin estimate):
DGBE: -6.531
SOS: -5.615
CB: -18.597
EG: -5.610

*Fraction sorbed to airborne particulates (Mackay model):
DGBE: 8.22E-005
SOS: 0.999
CB: 1 (sorbed fraction may be resistant to atmospheric oxidation)
EG: 1.96E-005

*Atmospheric oxidation half-life:
DGBE: 0.285 days
SOS: 1.164 days
CB: 0.221 days
EG: 1.285 days

*Level III Fugacity Model:

DGBE: 69.1% soil, 30.6% water, 0.0645% sediment, 0.172% air
SOS: 78.2% soil, 20.6% water, 0.261% sediment, 0.856% air
CB: 83.1% soil, 16.5% water, 0.43% sediment, 5.7e-008 % air
EG: 62.4% soil, 36.1% water, 0.0638% sediment, 1.44% air

*NOTE: DGBE – Cas # 112-34-5; Diethylene Glycol Butyl Ether
SOS – Cas# 142-31-4; Sodium Octyl Sulfate
CB – Cas# 61789-40-0; Cocamidopropyl Betaine
EG – Cas# 107-21-1; Ethylene Glycol

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values - Research

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acute (LC50)</th>
<th>Chronic (LC50)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>2700 mg/L 24h Carassius auratus (Goldfish)</td>
<td>No information found</td>
</tr>
<tr>
<td></td>
<td>2400 mg/L 24h Lepomis macrochirus (Bluegill sunfish)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2850 mg/L 24h Daphnia magna (Water flea)</td>
<td></td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>&gt;100 mg/L 96h Danio rerio EC50: &gt;100 mg/L 48h Daphnia magna</td>
<td>1.357 mg/L 42d P. promelas</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>10600-13000 mg/L 96h Pimephales promelas</td>
<td>No information found</td>
</tr>
<tr>
<td></td>
<td>450-1000 mg/L 96h Lepomis macrochirus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC50: 216 mg/L 72h Desmodesmus subspicatus</td>
<td></td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>2 mg/L 96h Brachydanio rerio (zebrafish) EC50: 6.5 mg/L 48h Daphnia magna</td>
<td>No information found</td>
</tr>
<tr>
<td>1,2-Propylene glycol</td>
<td>51600 mg/L 96h Oncorhynchus mykiss</td>
<td>No information found</td>
</tr>
<tr>
<td></td>
<td>51400 mg/L 96h Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC50: 19000 mg/L 96 h Pseudokirchneriella subcapitata</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC50: &gt;1000 mg/L 48h Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>41000 mg/L 96h Oncorhynchus mykiss (Rainbow trout)</td>
<td>No information found</td>
</tr>
<tr>
<td></td>
<td>EC50: 46300 mg/L 48h Daphnia magna (Water flea)</td>
<td></td>
</tr>
</tbody>
</table>

Aquatic Toxicity Values – Calculated Estimates

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acute (LC50)</th>
<th>Chronic (LC50)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1,2-Propylene glycol</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local regulations.

Contaminated Packaging Dispose in accordance with federal, state, and local regulations.
NOTES:
This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number: NA
UN Proper Shipping Name: NA
Transport Hazard Class: NA
Packing Group: NA
Marine Pollutant?: NO

IATA Not regulated
DOT Not regulated

NOTES:
This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada “Transportation of Dangerous Goods” regulations. This transportation information covers the Novec 1230 (CAS 756-13-8) fire extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems.

Special Precautions for Shipping:
If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

<table>
<thead>
<tr>
<th>Country(ies)</th>
<th>Agency</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>TSCA</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>DSL</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EINECS/ELINCS</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia</td>
<td>AICS</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>MITI</td>
<td>Yes</td>
</tr>
<tr>
<td>South Korea</td>
<td>KECL</td>
<td>Yes</td>
</tr>
</tbody>
</table>

REACH Title VII Restrictions: No information available
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Dangerous Substances</th>
<th>Organic Solvents</th>
<th>Harmful Substances Whose Names Are to be Indicated on Label</th>
<th>Pollution Release and Transfer Registry (Class II)</th>
<th>Pollution Release and Transfer Registry (Class I)</th>
<th>Poison and Deleterious Substances Control Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>Not Applicable</td>
<td>Applicable</td>
<td>Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying</th>
<th>ISHA – Harmful Substances Requiring Permission</th>
<th>Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals</th>
<th>Toxic Release Inventory (TRI) – Group I</th>
<th>Toxic Release Inventory (TRI) – Group II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol butyl ether</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Sodium Octyl Sulfate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Cocamidopropyl Betaine</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>1,2-Propylene glycol</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**European Risk and Safety phrases:**

- **EU Classification:** Xi
- **R Phrases:** 36/37/38
- **S Phrases:** 26
  - Irritant
  - Irritating to eyes, skin, and respiratory system.
  - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - Wear suitable protective clothing and eye/face protection

**U.S. Federal Regulatory Information:**

**SARA 313:**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product contains one chemical, ethylene glycol, which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Ethylene glycol is under SARA reporting requirements and has SARA threshold planning quantities (TPQs), CERCLA reportable quantities (RQs), and is regulated under TSCA 8(d).

**SARA 311/312 Hazard Categories:**
- **Acute Health Hazard:** Yes – Ethylene glycol
- **Chronic Health Hazard:** Yes – Ethylene glycol
- **Fire Hazard:** No
- **Sudden Release of Pressure Hazard:** Yes
- **Reactive Hazard:** No
  - * - Only applicable if material is in a pressurized extinguisher.

**Clean Water/Clean Air Acts:**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). Ethylene glycol is regulated as a pollutant and is listed in
the Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

**U.S. State Regulatory Information:**

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

**Alaska** - Designated Toxic and Hazardous Substances: None  
**California** – Permissible Exposure Limits for Chemical Contaminants: 40 ppm - ethylene glycol  
**Florida** – Substance List: None  
**Illinois** – Toxic Substance List: Yes – ethylene glycol  
**Kansas** – Section 302/303 List: None  
**Massachusetts** – Substance List: Yes – ethylene glycol  
**Minnesota** – List of Hazardous Substances: None  
**Missouri** – Employer Information/Toxic Substance List: None  
**New Jersey** – Right to Know Hazardous Substance List: Yes – ethylene glycol  
**North Dakota** – List of Hazardous Chemicals, Reportable Quantities: None  
**Pennsylvania** – Hazardous Substance List: Yes – ethylene glycol  
**Rhode Island** – Hazardous Substance List: No  
**Texas** – Hazardous Substance List: No  
**West Virginia** – Hazardous Substance List: None  
**Wisconsin** – Toxic and Hazardous Substances: None

California Proposition 65: Ethylene glycol is listed as developmental (causes cancer)

**Other:**

**Mexico** – Grade 1  
**Canada** – WHMIS Hazard Class

Slight Risk for ethylene glycol

Ethylene glycol is listed

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**Section 16. OTHER INFORMATION**

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format. No modifications of this SDS are authorized by AMEREX Corporation. Questions or comments should be directed to AMEREX Corporation (See Section 1).

**Issuing Date**  
24-December-2015

**Revision Date**  
7-March-2019; Revision D

**Revision Notes**  
None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.