



# MATERIAL SAFETY DATA SHEET

by Tyco Fire Suppression & Building Products

## ANSULITE 3% AFFF (FORMULA DC-3)

Product Code: 1010-2-026 ANa

Issue Date: 08-01-2010

### 1. Product and Company Identification

<b>Material name</b>	ANSULITE 3% AFFF (FORMULA DC-3)
<b>Version #</b>	01
<b>Revision date</b>	08-01-2010
<b>CAS #</b>	Mixture
<b>Product Code</b>	1010-2-026 ANa
<b>Product use</b>	Fire extinguishing agent
<b>Manufacturer / Importer / Supplier</b>	
<b>Name</b>	Tyco Fire Suppression and Building Products
<b>Address</b>	One Stanton Street Marinette, WI 54143-2542
<b>Phone</b>	715-735-7411
<b>Internet</b>	<a href="http://www.ansul.com">http://www.ansul.com</a>
<b>Emergency Phone Number</b>	CHEMTREC 800-424-9300 or 703-527-3887

### 2. Hazards Identification

<b>Emergency overview</b>	WARNING! Causes skin and eye irritation.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Eye contact. Skin contact. Inhalation. Ingestion.
<b>Eyes</b>	Do not get this material in contact with eyes.
<b>Skin</b>	Avoid contact with the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Inhalation</b>	Do not breathe vapor. May be irritating.
<b>Ingestion</b>	Not a likely route of entry. Do not ingest.
<b>Target organs</b>	Eyes. RESPIRATORY SYSTEM. Skin. Central nervous system.
<b>Chronic effects</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Signs and symptoms</b>	Irritation of nose and throat. Irritation of eyes and mucous membranes. Defatting of the skin. Rash. Skin irritation.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
propylene glycol	57-55-6	1 - 2.5
Butyl Carbitol	112-34-5	10 - 20
Other components below reportable levels		80 - 90

### 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.
<b>Skin contact</b>	Wash off with warm water and soap. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Move to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention, if needed.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without advice from poison control center. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	No unusual fire or explosion hazards noted.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	This product is not flammable. Use extinguishing agent suitable for type of surrounding fire.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	None known.
<b>Specific methods</b>	In the event of fire, cool tanks with water spray.
<b>Hazardous combustion products</b>	May include oxides of nitrogen.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Local authorities should be advised if significant spillages cannot be contained. Surfaces may become slippery after spillage.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods for containment</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Should not be released into the environment.  Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).  Never return spills in original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

## 7. Handling and Storage

<b>Handling</b>	Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Handle and open container with care.
<b>Storage</b>	Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Do not get in eyes. Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.
<b>Skin protection</b>	Wear appropriate chemical resistant clothing. Chemical resistant gloves.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General hygiene considerations</b>	When using do not smoke. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

<b>Appearance</b>	
<b>Form</b>	Liquid.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Physical state</b>	Liquid.
<b>pH</b>	7 - 8.5
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.

<b>Boiling point</b>	210.2 °F (99 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1.03
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	Not available.

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Alkaline metals. Strong acids, alkalies and oxidizing agents.
<b>Hazardous decomposition products</b>	Nitrogen oxides (NOx). Sulfur oxides. Carbon oxides.

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## 11. Toxicological Information

### Toxicological data

#### Components

Butyl Carbitol (112-34-5)

#### Test Results

Acute Dermal LD50 Rabbit: 2700 mg/kg  
 Acute Oral LD50 Guinea pig: 2000 mg/kg  
 Acute Oral LD50 Rabbit: 2200 mg/kg  
 Acute Oral LD50 Rat: 6560 mg/kg  
 Acute Other LD50 Mouse: 850 mg/kg  
 Acute Other LD50 Rat: 500 mg/kg  
 Acute Oral LD50 Dog: 19000 mg/kg  
 Acute Oral LD50 Guinea pig: 18400 - 99999 mg/kg  
 Acute Oral LD50 Mouse: 23900 - 31800 mg/kg  
 Acute Oral LD50 Rabbit: 18000 mg/kg  
 Acute Oral LD50 Rat: 30000 mg/kg  
 Acute Other LD50 Mouse: 6630 mg/kg  
 Acute Other LD50 Mouse: 17.3 g/kg  
 Acute Other LD50 Rat: 6423 mg/kg  
 Acute Other LD50 Rat: 14 g/kg

propylene glycol (57-55-6)

**Local effects** Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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## 12. Ecological Information

### Ecotoxicological data

#### Components

Butyl Carbitol (112-34-5)

#### Test Results

EC50 Algae: > 100 mg/l 96.00 Hours

Components	Test Results
Butyl Carbitol (112-34-5)	EC50 Water flea (Daphnia magna): 3184 mg/l 24.00 hours LC50 Bluegill (Lepomis macrochirus): 1300 mg/l 96.00 hours
propylene glycol (57-55-6)	EC50 Water flea (Daphnia magna): > 10000 mg/l 48.00 hours LC50 Fathead minnow (Pimephales promelas): 710 mg/l 96.00 hours
<b>Ecotoxicity</b>	Contains a substance which causes risk of hazardous effects to the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	Not available.

### 13. Disposal Considerations

<b>Disposal instructions</b>	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.

### 14. Transport Information

#### DOT

Not regulated as dangerous goods.

### 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Butyl Carbitol (CAS 112-34-5) 1.0 % N230

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Butyl Carbitol (CAS 112-34-5) Listed. N230

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Acute Health - Yes  
Chronic Health - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	No
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)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Butyl Carbitol (CAS 112-34-5) 500 LBS

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Butyl Carbitol (CAS 112-34-5) Listed.

propylene glycol (CAS 57-55-6) Listed.

**16. Other Information**

<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA.
<b>HMIS® ratings</b>	Health: 1 Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 0 Instability: 0
<b>Disclaimer</b>	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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.
<b>Issue date</b>	08-01-2010