



MATERIAL SAFETY DATA SHEET

SOIL EQUIVALENT FOAM AC-667SE

SECTION I: GENERAL INFORMATION

- Manufacturer's Name: RUSMAR INCORPORATED
- Manufacturer's Address: 216 Garfield Avenue • West Chester, PA 19380
- Manufacturer's Phone No.: 610-436-4314
- Chemical Family: Starch modified hydrolyzed protein surfactant
- Trade Name: RUSMAR AC-667SE

SECTION II: HAZARDOUS INGREDIENTS

- Paints, Preservatives, and Solvents - None
- Alloys and Metallic Coatings - None
- Hazardous Mixtures and Other Materials - None

SECTION III: PHYSICAL DATA

- Boiling Point: 100° C
- Vapor Pressure: 25mm Hg at 25° C
- Vapor Density (Air = 1): N/A
- Water Solubility: Complete
- Appearance/Odor: Opaque, dark viscous gel, cinnamon scented
- Specific Gravity: 0.99 to 1.01
- % Volatile, By Volume: None
- Evaporation Rate: N/A

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

- Flash Point (Method): Nonflammable – water based
- Derived Foam – nonflammable – ASTM E1354, see below
- Flammable Limits: N/A
- Extinguishing Media: N/A
- Special Fire Fighting Procedures: None
- Unusual Fire and/or Explosion Hazards: None



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SECTION V: HEALTH HAZARD DATA

- Threshold Limit Value: Not Determined; material is non-hazardous.
Refer to Section X.
- Effects of Overexposure: This material is not expected to present an inhalation or ingestion hazard. It may cause an eye or skin irritation upon direct contact in concentrate form.
- Emergency and First Aid Procedures: Wash thoroughly with clean water.

SECTION VI: REACTIVITY DATA

- Material is stable: No material incompatibility
- Hazardous Decomposition Products: Low levels of sulfur oxides and ammonia on exposure to high temperatures
- Derived foam is noncombustible, see below
- Polymerization will not occur

SECTION VII: SPILL OR LEAK PROCEDURES

- Steps to be taken in case material is released or spilled: If spilled indoors on a hard surface, the spill area may be slippery and should be thoroughly washed with water. Contain spill and absorb material with dirt or other appropriate absorbent.
- Waste Disposal Method: This material is completely biodegradable and can be disposed of in a sanitary landfill according to local regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

- Respiratory Protection: None required for normal operations
- Ventilation: No special requirements
- Protective Gloves: Not required, but recommended
- Eye Protection: Not required, but recommended
- Other Protective Equipment: None



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SECTION IX: SPECIAL PRECAUTIONS

- Storing/Handling Precautions: Avoid excessive heat. Material will freeze, but thawing will not cause changes in the product.
- Other Precautions: None

SECTION X: ENVIRONMENTAL TEST RESULTS

A. TCLP – NOVEMBER 1995;

- Results, all negative:
 - Non-Volatile extraction
 - Metals
 - Pesticides
 - Herbicides
 - Acid, Base, Neutrals
 - Zero headspace extraction
 - Volatiles

B. BIOAQUATIC ASSAY – DECEMBER 1995;

- Static acute bioassay procedure for hazardous waste
- California Department of Fish and Game
- Water pollution control laboratory
- Results, $LD_{50} > 750\text{PPM}$ = Non-hazardous material

C. FLAMMABILITY – ASTM E1354, CONE CALORIMETER – DEC. 1995

- Results:
 - No ignition
 - Heat of combustion = 0.0
 - Non-flammable

D. BIODEGRADATION EVALUATION – JANUARY 1996; OECD METHOD 301

- Results: Material is completely biodegradable.