

Material Safety Data Sheet

(17971-100)

Section 1: Chemical Product and Company Identification

Product Name: Citifluor AF2 Antifadent Solution

Catalog Number: 17971-100

CAS#: See Section 2 below

Contact Information:

Electron Microscopy Sciences

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CHEMTREC (24-Hour Emergency Telephone), call: 1-800-424-9300

Section 2: Composition and Information on Ingredients

EC Number	CAS Number	Chemical Name	Content	Hazard Symbol(s)	Risk Phrase(s)
Registered	Commercial Secret	Aliphatic tertiary name	1-5%	F Highly flammable Xn Harmful	R11-22-36/38
200-289-5	56-81-5	Glycerol	85-95%	None	---

Section 3: Hazards Identification

None known

Section 4: First Aid Measures

General – Aqueous solution are alkaline

Skin Contact: Remove any contaminated clothing and wash the infected area with plenty of water and soap. SEEK MEDICAL ADVICE if irritation persists.

Eye Contact: Irrigate the eyes with copious amounts of water (holding the eyelids open with the fingers if necessary). SEEK MEDICAL ADVICE if irritation persists.

Ingestion: Give plenty of water provided they are conscious. Rinse mouth with copious amounts of water. DO NOT induce vomiting and SEEK MEDICAL ADVICE.

Inhalation: If breathing becomes difficult, remove to fresh air. SEEK MEDICAL ADVICE.

Section 5: Fire and Explosion Data

Flash Point: >100°C In the event of fire, suitable extinguishing media: water, foam, dry powder or carbon dioxide. Hazardous combustion products include: Oxides of carbon. Oxides of nitrogen.

Section 6: Accidental Release Measures

Small quantities may be wiped up using an absorbent cloth or paper and rinsed away in running water. Larger quantities may be mixed with sand, or similar inert material, swept up and disposed of as non-hazardous waste.

Section 7 : Handling and Storage

Handling: This product should be handled by, or under close supervision of those properly qualified in the use of potentially hazardous chemicals and who should take into account the fire, health and chemical hazards reported on this sheet.

Storage: Store in well sealed bottle away from direct sunlight.

Section 8: Exposure Controls/Personal Protection

Exposure Limit(s)

Substance	CAS Number	Work place exposure limit				Comments and Source
		Long-term (8-hour TWA)		Short-term (15-minute TWA)		
		ppm	Mg/m3	ppm	mg/m3	
Glycerol	56-81-5	---	10	---	30	Mist E740/2005

Technical measures/precautions

Use in a well-ventilated environment.

Respiratory protection: Not required

Hand protection: Not required

Eye protection: Not required

Skin protection:: Not required

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Slight, musty

Boiling point: approx. 280°C (with decomposition)

Aqueous solubility: completely miscible

pH: approx 10 (500 g/l@20°C)

Refractive index: 1.4628 ± 0.001 @20°C

Section 10: Stability and Reactivity Data

Conditions to Avoid: High temperatures. Humidity. Strong light.

Materials to Avoid: Strong oxidizing agents.

Section 11: Toxicological Information

Acute oral toxicity: Not tested

Acute dermal toxicity: Not tested

Acute inhalation toxicity: Not tested

Acute dermal irritation/corrosion: Non-irritant

Acute eye irritation/corrosion: Non-irritant

Acute skin sensitization: Not expected to cause sensitization in Susceptible individuals

Section 12: Ecological Information

Acute toxicity to fish: Not tested **Acute toxicity to daphnia:** Not tested **Acute toxicity to algae:** Not tested
Biodegradability: Expected to be readily biodegradable according to OECD criteria
Bioconcentration factor: Not tested

Section 13: Disposal Considerations

Dispose of as special waste in accordance with local, regional, and/or national guidelines.

Section 14: Transport Information

RID/ADR Non-hazardous for rail/road transport
IMDG: Non-hazardous for sea transport
IATA: Non-hazardous for air transport

Section 15: Other Regulatory Information

Labelling in accordance with Directive 91/155/EEC
This product is not tested and the evaluation was performed using the EC calculation procedure.

Section 16: Other Information:

R-phrases from Section 2
R11: Highly flammable **R22: Harmful if swallowed** **R36/38: Irritating to eyes and skin**

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