

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

CHEMICAL IDENTIFICATION

Product Name: **Acridine Orange Stain (AOS) at 266 ug/mL (1mM)**

Catalog #: 599, and 6130
Synonyms of Active Reagent: AO; 3, 6-bis-diethylaminoacridine; euchryesine; rhoduline orange; waxoline orange; basic orange 14; CI 46005; sumitomo acridine orange RK
CAS # of Active Reagent: 494-38-2, 65-61-2
Chemical Name of Active Reagent: N, N, N', N'-tetramethyl-3, 6-acridinediamine
Molecular Weight of Active Reagent: 265.36
Chemical Formula of Active Reagent: C₁₇H₁₉N₃

HAZARDS IDENTIFICATION

AOS contains acridine orange reagent (AOR) at 266 ug/mL (equal to 1 millimolar) in DI H₂O. AOR is not currently listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA; the available data are insufficient to evaluate carcinogenicity. This staining reagent should always be handled using protective gloves, clothing, and eyewear. Incompatible with strong oxidizing agents.

CHARACTERISTICS

AOS is a clear, red-orange solution.

Boiling point °C:	No data available.
Vapor pressure (mm Hg):	No data available.
Vapor density:	No data available.
Solubility in water:	In solution.
Specific gravity:	Not applicable.
% Volatile by volume:	Not applicable.
Evaporation rate:	No data available.
pH:	3.8 – 4.2

STORAGE AND STABILITY

AOS, as supplied by ICT, is stable for 24 months at 2-8°C when stored in tightly closed amber vials and protected from light. Vials may be hazardous when empty since they contain AOR residues. Hygroscopic.

HEALTH HAZARD

AOS contains AOR, which is harmful if swallowed, inhaled, or absorbed through the skin. AOR has shown mutagenic effects in laboratory experiments. Toxicity of AO has not been thoroughly investigated.

SAFETY CONTROL MEASURES

Personal protective equipment, such as lab coat, safety glasses, gloves should be worn at all times while handling this product. Maintain eye wash fountain and safety shower in work area. Safe laboratory practices should be followed. Always wash thoroughly after handling. Avoid prolonged exposure. Never take internally. Do not breathe vapor or mist.

EXPOSURE GUIDELINES

No exposure guidelines are available.

FIRST AID MEASURES

AOS may cause irritation; avoid any contact with skin, eyes, or take internally. Do not breathe vapor or mist. Carefully remove and dispose of gloves after use. Remove contaminated clothing and shoes; wash before reuse.

Skin:	Wash thoroughly with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Launder contaminated clothing. Throw away contaminated shoes.
Eyes:	Immediately flush with plenty of water for at least 15 minutes.
Ingestion:	If solution is swallowed, induce vomiting and/or drink water or milk and seek medical attention. Wash out mouth with water.
Inhalation:	Remove to fresh air, seek medical advice.

FIRE/EXPLOSION HAZARD

The 266 ug/ml solution of acridine orange stain is not a potential fire or explosion hazard. However, AOR decomposes when burning and produces toxic gasses: hydrogen chloride; nitrogen oxides; carbon monoxide; and carbon dioxide. Hazardous polymerization has not been reported.

ACCIDENTAL RELEASE MEASURES

For simple counter top spills, use protective gloves and clothing when promptly cleaning up spills. Spilled solutions may be adsorbed into paper toweling and disposed of according to local waste management ordinances. For extremely large spills, ventilate area and evacuate all unnecessary employees. Wear appropriate personal protective equipment including: neoprene (or equivalent) gloves, safety glasses with side shields, and lab coat. Contain the spill and dispose of in compliance with federal, state, and local regulations. US regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. Toll free number to US Coast Guard national response center is (800) 424-8802.

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