

MATERIAL SAFETY DATA SHEET

Product Identity Information

Product Name: Adjustment Dye Kit 543nm, Product No.: MF-D543PX-2
Unit Size: 6 vials (lyophilized dye) + 6 vials (buffer)
Composition: lyophilized 5-(6)-Carboxytetramethylrhodamine, 0.1% Pluronic F-127, 0.01% NaN₃ in PBS buffer
Formula: C₂₅H₂₂N₂O₅
Molecular Weight: 430.45 Da

Physical/Chemical Characteristics

Appearance: Colourless liquid / Colourless solid
Solubility in Water: High

Physical Hazards

Flash Point: Not determined
Classification: Not determined
Extinguishing Fire: Use carbon dioxide, dry chemical extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

Reactivity and Storage Conditions

Stability: Stable. Not a significant hazard in these quantities
Storage Conditions: Refrigerator (2 ~ 8 °C) storage of dry material recommended for long term storage
Solutions in water should be stored in a refrigerator (2 ~ 8 °C) or a freezer (-30 ~ -15 °C).

Health Hazard Data

Routes of Entry: May enter the body through inhalation, ingestion, and eye and skin contact
RTECS Number: Not known
Exposure Limits: Not determined
Toxicity: We are not aware of any toxicity data for these products.
Health Hazards: See Potential Hazards below.
Potential Hazards: Complete properties have not been investigated; however, similar compounds are known to be biochemically reactive with nucleic acids, proteins, and other biochemicals and should be treated as potentially hazardous.
Carcinogenicity: Not listed by NTP, IARC or OSHA
Expos. Symptoms: Unknown. Handle with care
First Aid: Potentially harmful; avoid prolonged or repeated exposure. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with water for 15 min and seek medical advice. If inhaled or swallowed, seek medical advice.

Precautions for Safe Use/Control Measures

Ventilation: Mechanical ventilation and respiratory protection are recommended
Handling: Gloves, protective clothing and eyewear should be worn and safe laboratory practices followed.
Use appropriate protective equipment and methods to clean up spilled substance and solutions promptly.
In Case of Spill: Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.
Clean-up: Wash with soap and water.

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals and biochemicals. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Olympus corporation shall not be held liable for any damage resulting from handling or contact with the above products.