MATERIAL SAFETY DATA SHEET

Effective Date: June 1, 2014 Revision 2 Page 1 of 2

PRODUCT IDENTIFICATION

Name:Purified proteins labeled with DyLight 350, DyLight 488 (equivalent to Cy 2),
DyLight 549 (equivalent to Cy 3) and DyLight 649 (equivalent to Cy 5).CatalogDY350-1102-1 to DY350-9009-1, DY488-1102-1 to DY488-9009-1, DY549-
1102-1 to DY549-9009-1, DY649-1102-1 to DY649-9009-1Number (s):1102-1 to DY549-9009-1, DY649-1102-1 to DY649-9009-1
Lectins labeled with DyLight

EMERGENCY INFORMATION

EY Laboratories, Inc. 107 North Amphlett Blvd. San Mateo, CA 94401

EMERGENCY PHONE: 650-342-3296

HAZARDOUS COMPONENTS

Specific protein(s) as listed on the vial label. Solutions are at a concentration generally greater than 0.5mg protein/ml. Biological activity of these labeled proteins will vary. DyLight is severely irritating to eyes in their pure form. Compounds with similar chemical structures are known to be reactive with proteins and other biomolecules. The complete properties of the dyes after labeling have not been evaluated. These compounds should be treated as potentially hazardous. All solutions contain less than 0.05% sodium azide as a preservative.

HEALTH HAZARD INFORMATION

EXPOSURE LIMITS:	None established. The toxicological properties of these products have not been thoroughly investigated. Care should be taken when handling any of these materials.
EFFECTS OF	Causes localized eve, skin, or mucous membrane irritation. Some sensitive
OVEREXPOSURE:	individuals may develop a chronic allergic reaction with exposure. The
	known effects are due to the protein. No specific effects of the bound dye are known at this time.
ROUTES OF	Inhalation of powders and skin contact with liquids are the primary routes of
EXPOSURE:	exposure. Care should be taken to avoid the formation of aerosols when
	handling any of the solutions.

PHYSICAL CHARACTERISTICS

APPEARANCE:	The color of DyLight: Dylight 350 is blue, DyLight 488 is yellow, DyLight
	549 is red and DyLight 649 is blue.
SOLUBILITY:	Powders are completely soluble in many biological buffers and water.
	All liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS

Not considered to be a fire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS: Dry chemical powder or CO₂. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

MSDS for DyLight labeled Purified Proteins Continued - page 2 of 2.

NOTE: Most solutions contain less than 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

REACTIVITY DATA

STABILITY:

HAZARDOUS POLYMERIZATION: INCOMPATIBILITY: Stable. Decomposition products are not known to be hazardous. Will NOT occur. Alcohols, strong bases and acids, strong oxidizing

agents, and heat. (Lead and copper may react with sodium azide).

SPILL / LEAK PROCEDURES

MATERIAL RELEASE /	Avoid contact with powder or liquid. Clean up spill with a paper towel
SPILL:	soaked in household bleach. Do not allow solutions to dry on
	environmental surfaces. Wash affected area with detergent after the area
	has been treated with bleach.
WASTE DISPOSAL:	Incinerate, autoclave, or dispose of paper waste in accordance with all
	Local, State, and Federal regulations. Due to the small quantities of
	material involved these products are generally not considered to be
	environmental hazards. All of these proteins are fully biodegradable.

EMERGENCY FIRST AID PROCEDURES

May be harmful if swallowed, inhaled, or allowed to absorb through the skin. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air. Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response, such as watering eyes, sneezing, or difficulty breathing.

SPECIAL HANDLING PRECAUTIONS

VENTILATION:	No special ventilation is required but it is recommended to handle these reagents in a fume hood when possible.
EYE PROTECTION: RESPIRATORY PROTECTION:	Required. Goggles or safety glasses with a side shield are recommended. Recommended as a safety precaution, specifically when working with powders. An approved respirator may be required for those individuals already known to be sensitive to these materials.
PROTECTIVE GLOVES:	Required when handling any of these materials.

SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

DyLight is a trademark of Thermo Fisher.



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