



SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

DyLight® 650 conjugated to various proteins, pertaining to item numbers

D10-1310-1MG, 100	D10-1718	D10-1831	D10-2212	D10-114-1MG
D10-1711-1MG, 100	D10-1722	D10-1832	D10-110-1MG	D10-116-1MG
D10-1714	D10-1830	D10-1834	D10-112-1MG	D10-1714-1MG, 100
D10-1718-1MG, 100	D10-1722-1MG, 100	D10-1830	D10-2212-1MG	

2. COMPOSITIONS AND INFORMATION ON INGREDIENTS

Chemical Name	CAS#	% (w/v)	Exposure Limits In Air-OSHA			
			PEL	STEL	IDLH	OTHER
			mg/m ³	mg/m ³	mg/m ³	mg/m ³
Sodium Azide	26628-22-8	0.013	NE	NE	NE	NE
Sodium Phosphate	7558-79-4	<10	NE	NE	NE	NE
Sodium Chloride	7647-14-5	<10	NE	NE	NE	NE
DyLight 650	NE	<1	NE	NE	NE	NE

NE=Not Established

Chemical Abstracts Registry Number & Name: None assigned

Physical Characteristics: Small, fluorescent molecule covalently attached to an antibody. The material is provided as a lyophilized powder wherein the reconstituted solution is 100 mM Sodium Phosphate, 100 mM sodium chloride, and 2mM sodium azide.

3. HAZARD IDENTIFICATION

Sodium azide is a hazardous chemical. However, in solution the sodium azide is less than 1% (w/v) of the total, and therefore it is not considered to be a hazardous substance per requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Hazard: The only hazards identified with this product are those associated with sodium azide, which is present at very low concentrations.

All hazard information pertinent to these products has been provided in the Material Safety Data Sheet per requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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Special Precautions:

Symptoms of Over-Exposure by Route of Exposure: No major adverse health effects should occur from routine occupational use of these materials in the manner specified by the manufacturer's instructions. The only likely symptom of exposure would be reddening or inflammation after accidental ingestion or injection. If this occurs, consult with a physician.

4. FIRST AID MEASURES

Skin Exposure: Basic hygiene should prevent any problems. If contact with these products leads to reddening, inflammation, or irritation, flush exposed area with running water and consult with a physician.

Eye Exposure: If these products enter the eyes, flush the eyes with gently running water for at least 15 minutes. If inflammation occurs, consult with a physician.

Inhalation: Vapors of these products are likely to be only water vapors, so no adverse health effects are expected if vapors are inhaled.

Ingestion: These products are for *in vitro* research use only. If these products are accidentally swallowed, no adverse health effects are expected. However, no special precautions are taken to remove or detect the possible presence of endotoxin or pyrogens. If fever or adverse effects are experienced, consult with a physician.

5. FIRE-FIGHTING MEASURES

Unusual Fire and Explosion Hazards: If involved in a fire, a pressure increase will develop in the storage container and a rupture might occur. Also, these products may decompose and produce irritating fumes or gasses.

Flash Point: N/A

Autoignition Temperature: N/A

Flammable Limits (In Air by Volume, %): N/A

Fire-Extinguishing Materials: Use suppression methods for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Response: For small releases, treat the products as water, but take basic hygiene precautions. Lightweight gloves, lab coat, and eye protection should be worn. Absorb spilled material with paper towels. Wash contaminated area with soap and water, absorb with paper towels, and rinse with water. Trained personnel using pre-planned procedures should respond to large releases that are not immediately controlled. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

In the event of a non-incident, minimum release, personal protective equipment should be: **Level D:** lab gloves, chemical resistant apron, boots, and splash goggles. Respiratory protection should not be necessary. Absorb spilled liquid with poly pads or other suitable materials. Decontaminate the spill area thoroughly. Place all spill residues in a suitable container and seal. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations.

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7. HANDLING and STORAGE

Work Practices and Hygiene Practices: As with all chemicals, avoid getting these products **on you** or **in you**. Wash hands after handling these products. Avoid splashing or spraying these products. Do not eat or drink while handling these products.

Storage and Handling Practices: All employees who handle these materials should be trained to handle them safely. Avoid breathing vapors or mists generated by these products. Ensure that containers of these products are properly labeled. Open containers slowly on a stable surface. Store vials as directed in the Product Specifications sheets. Keep vials tightly closed under sterile conditions when not in use. Prior to use, read instructions provided with these products.

Protective Practices during Maintenance of Contaminated Equipment: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely, as applicable. Always use these products in areas where adequate ventilation is provided. Decontaminate equipment using soapy water before maintenance begins. Collect all rinses and dispose of according to applicable Federal, State, and local procedures.

8. EXPOSURE CONTROLS-PERSONAL PROTECTION

Ventilation and Engineering Controls: Use a mechanical fan or vent area to outside, if necessary. Eye-wash stations should be available near location where these products are used.

Respiratory Protection: Respiratory protection is not necessary when using these products. Maintain airborne contaminant concentration below limits listed in Section 2 (Composition and Information on Ingredients). If respiratory protection is needed, use only protection authorized in Section 29 CFR 1910.134 or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.

Eye Protection: Splash goggles or safety glasses.

Hand Protection: Wear gloves for routine industrial use.

Body Protection: Use body protection, such as a lab coat, which is appropriate for the task.

9. PHYSICAL and CHEMICAL PROPERTIES

Relative Vapor Density (Air=1): N/A

Evaporation Rate: Similar to water

Specific Gravity (Water=1): N/A

Freezing/melting Point: N/A

Solubility in Water: Soluble

Boiling Point: N/A

Appearance and Color: Clear, brown solution

pH: 7.4

How To Detect This Substance: As water, there are no unusual properties associated with these solutions.

10. STABILITY and REACTIVITY

Stability: Stable

Decomposition Products: Carbon dioxide, carbon monoxide, ammonia, hydrogen chloride, oxides of nitrogen,

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phosphorous, and sulfur.

Hazardous Polymerization: Will not occur.

Conditions To Avoid: Any conditions which are incompatible with water or other incompatible chemicals.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

Sodium azide: Oral Rat, LD 50, 27mg/kg

Sodium Phosphate: Oral Rat, LD50, 17g/kg

Protein: NE

Suspected Cancer Agent: The chemicals in these products are not found in the following lists: NTP, IARC, Federal OSHA Z-list, and CAL-OSHA, and therefore are not considered to be, nor suspected by these agencies to be carcinogenic.

Irritancy of Products: Although not tested, the components of these products are not expected to cause skin irritation. Mild eye irritation may occur if this product enters the eye.

Sensitization to the Products: The chemicals in these products are not known to be sensitizers with prolonged or repeated use.

Reproductive Toxicity: These products are not reported at this time to cause adverse reproductive effects in humans.

Mutagenicity: These products are not reported to cause mutagenic effects in humans.

Embryo Toxicity: These products are not reported to cause human teratogenic effects.

Teratogenicity: These products are not reported to cause human teratogenic effects.

Medical Condition Aggravated by Exposure: No specific medical conditions are known to be aggravated by exposure to dilutions of these products.

Recommendation to Physician: These products are not expected to cause clinical symptoms. If symptoms occur, treat the symptoms and eliminate over-exposure.

Biological Exposure Indices (BEI's): Currently, there are no Biological Exposure Indices applicable to the components of these products.

12. ECOLOGICAL INFORMATION

Environmental Stability: The chemicals in these products will degrade in the environment into organic and inorganic constituents.

Effect of Products on Plants and Animals: No unusual effects on plants and animals are expected if these products are released into the environment. See section 11 (Toxicological Information) for further information regarding the effects of chemicals in these products on test animals.

13. DISPOSAL CONSIDERATIONS

Preparing Wastes For Disposal: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if altered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA Waste Number: Not applicable to these products.

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14. TRANSPORTATION INFORMATION

This material is not hazardous as defined by 49 CFR 172.101 by the U.S. Department of Transportation.
This material is not considered as Dangerous Goods.

Proper Shipping Name: N/A

Hazardous Class Number and Description: N/A

UN Identification Number: N/A

Packing Group: N/A

15. REGULATORY INFORMATION

SARA Reporting Requirements: These products are not subject to Section 302, 304, and 313 reporting requirements under the Superfund Amendment and Reauthorization Act.

Chemical SARA 302, SARA 304, SARA 313

SARA Threshold Planning Quantity: N/A

TSCA Inventory Status: N/A

CERCLA Reportable Quantity (RQ): N/A

Other Federal Regulations: N/A

16. OTHER INFORMATION

Prepared By:

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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