



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	DiR (DiIC18(7)1,1'-dioctadecyltetramethyl indotricarbocyanine) DiD [1,1'-Dioctadecyl-3,3,3',3'-tetramethylindodicarbocyanine] DiI [1,1'-Dioctadecyl-3,3,3',3'- tetramethylindocarbocyanine] DiO [3,3'-Dioctadecyloxacarbocyanine perchlorate]
Product Number	22070, 22031, 22101
Brand	Fluorescence Biotech
Company/Address	Beijing Fluorescence Biotechnology Co.Ltd No.26 LaiGuangYing West Road, Chaoyang District, Beijing 100012 E-mail: info@fluorescence.cn ; www.fluorescence.cn
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Proportion	Formula	Molecular
DiR (DiIC18(7)1,1'-dioctadecyltetramethyl indotricarbocyanine)	N/A	>95%	C63H101IN2	1013.4
DiD [1,1'-Dioctadecyl-3,3,3',3'-tetramethylindodicarbocyanine]	N/A	>95%		~1000
DiI [1,1'-Dioctadecyl-3,3,3',3'-tetramethylindocarbocyanine]	N/A	>95%	C59H97CIN2O4	~1000
DiO [3,3'-Dioctadecyloxacarbocyanine perchlorate]	N/A	>95%		~1000

3. HAZARDS IDENTIFICATION

Emergency Overview

Caution - substance not yet fully tested. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

Potential Health Effects: NOT determined for Inhalation, Ingestion, Skin, Eyes, Chronic Exposures and Target Organs etc.

4. FIRST AID MEASURES

Potentially harmful. Avoid prolonged or repeated exposure. Wash with water thoroughly after handling. If eye or skin contact occurs, wash affected area with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

5. FIRE-FIGHTING MEASURES

Use dry chemical powder or appropriate foam extinguisher.

6. ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

7. HANDLING AND STORAGE

Handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Desiccation required. Keep container tightly closed in a dry, cold, dark and well-ventilated place.



Store at 4~-20°C. Protect material from long-term exposure to light; may be exposed to light for short periods of time.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data: Not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	DiI (Red), DiD (Blue), DiR(Green),DiO(Red) Solid
Physical State	Solid powder
Odor	none reported
No data available for others	

10. STABILITY AND REACTIVITY

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: No dangerous reactions identified.

Dangerous Products of Decomposition: No dangerous decomposition products identified.

11. TOXICOLOGICAL INFORMATION

RTECS Number: None known

Toxicity: We are not aware of any toxicity data for this product.

Potential Hazards: The complete properties have not been investigated; however, similar compounds are known to be chemically reactive with proteins and other biochemicals and should be treated as potentially hazardous.

Carcinogenicity: Not listed by NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water course, or sewage system.

13. DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal.

14. TRANSPORT INFORMATION DOT Not dangerous goods

Hazard Class: Not determined

Identification Number: Not determined

Packing Group: Not classified

Proper Shipping Name (Technical Name): Not determined

15. REGULATORY INFORMATION

US Toxic Substances Control Act (TSCA): Not listed

US Other: Not applicable

EEC EINECS Number: Not identified

EEC Risk Statements: Not determined

Other Country Regulations: None identified

16. OTHER INFORMATION

This material is sold for research purposes ONLY. Fluorescence Biotech will NOT be held liable for any damage resulting from handling or contact with the above product.