

## Part III DYE

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: M-6FN DYE, M-6FR DYE, M-6FD DYE

Product code:

M-6FN DYE: 105-012293-00 (48mL×1), 105-012294-00 (12mL×4);

M-6FR DYE: 105-012295-00 (48mL×1), 105-012296-00 (12mL×4);

M-6FD DYE: 105-012297-00 (48mL×1), 105-012298-00 (12mL×4).

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: For In Vitro Diagnostic Use. For more information, see instruction for use and labels.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer: SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD

Address: Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen, 518057, P.R. China

Tel: +86 755 81888998 / Fax: +86 755 26582680

E-mail Address: [service@mindray.com](mailto:service@mindray.com)

#### 1.4. EC-Representative

EC-Representative: Shanghai International Holding Corp. GmbH(Europe)

Address: Eiffestraße 80, 20537 Hamburg, Germany

Tel: 0049-40-2513175 Fax: 0049-40-255726

#### 1.5. Emergency telephone number

Emergency telephone No: +86 755 81888998 (Mon-Fri; 08:30-18:00 Beijing Time)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

This product is belong to mixture.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

## 2.2. Label elements

Hazard pictograms: Not Applicable.

Signal word: Not Applicable.

Hazard statements: Not Applicable.

Precautionary statements: P501: Dispose of waste product, unused product, contaminated packaging in accordance with governmental requirements.

## 2.3. Other hazards

PBT, vPvB, carcinogens, mutagens, reproductive toxicants: This product does not contain any known PBT, vPvB, carcinogens, mutagens, reproductive toxicants as listed by SVHC candidate list.

May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause kidney damage. May cause central nervous system effects. May cause cardiac disturbances. This substance has caused adverse reproductive and fetal effects in animals.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not Applicable.

### 3.2. Mixtures

#### M-6FN DYE

Name	CAS NO.	Concentration
Fluorochrome	Not Applicable	≤0.01%
Ethylene Glycol	107-21-1	94-99%

#### M-6FR DYE

Name	CAS NO.	Concentration
Fluorochrome	Not Applicable	≤0.01%
Ethylene Glycol	107-21-1	94-99%

#### M-6FD DYE

Name	CAS NO.	Concentration
Fluorochrome	Not Applicable	≤0.01%
Ethylene Glycol	107-21-1	94-99%

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Skin contact</b>	If this chemical contacts the skin, flush the area of skin with plenty water. If clothing becomes wet or significantly contaminated, remove and replace clothing. Where there is evidence of skin irritation, get medical attention.
<b>Eye contact</b>	Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Do NOT allow victim to rub or keep eyes closed. Get medical attention immediately.
<b>Ingestion</b>	Get medical attention if there has been ingestion of this product. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel.
<b>Inhalation</b>	The product is water based with slight volatilization, so there is a very small chance of inhalation. If the product is inhaled, move exposed individual to fresh air, and seek medical assistance immediately.
<b>Medical treatment</b>	Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Acute symptoms</b>	No information available.
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<b>Delayed symptoms</b>	No information available.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Not Applicable.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Use fire extinguishing media appropriate for site conditions, such as CO<sub>2</sub>, extinguishing powder or water spray.

#### 5.2. Special hazards arising from the substance or mixture

None.

#### 5.3. Advice for firefighters

Fire fighters should wear an approved self-contained breathing apparatus and full

protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear gloves and laboratory coat. Prevent skin and eye contacting.

### 6.2. Environmental precautions

Keeping away from drains, surface and ground water and soil.

### 6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Dispose it in accordance with governmental requirements.

### 6.4. Reference to other sections

See Sections 8 and 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU.

Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely.

Avoid contact with eyes, skin, and clothing. Empty containers should be completely drained and disposed of properly. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a cool, dry location away from direct sunlight at temperatures between 2-30°C. Keep product away from freezing and open flame. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.

### 7.3. Specific end use(s)

Not Applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Exposure limits</b>	Ethylene glycol: CL 50 ppm.
<b>Skin protection</b>	Impervious gloves, such as Nitrile or equivalent, should

	be worn to prevent skin contact.
<b>Eye protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Respiratory protection</b>	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
<b>Environmental exposure controls</b>	Prevent the product from entering drains and watercourses.

## 8.2. Exposure controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear blue liquid.
<b>Odour</b>	Slightly smell of ethanol.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	-13°C.
<b>Initial boiling point and boiling range</b>	Boiling point: 197°C. Boiling range: No information available.
<b>Flash point (typical)</b>	112°C (closed container).
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	0.07mm Hg.

<b>Vapour density</b>	2.1(air=1).
<b>Relative density</b>	1.00-1.25(Water: 1.00).
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	3.2%~15.3%.
<b>Oxidizing properties</b>	Not applicable.

## 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not applicable.

### 10.2. Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions. Ethylene glycol is incompatible with strong bases, strong acids, strong oxidizing agents, perchloric acid, chromyl chloride and polymerization catalysts.

### 10.3. Possibility of hazardous reactions

Not applicable.

### 10.4. Conditions to avoid

Avoid Frozen and high temperature(above 32°C). Keep away from sunlight, ignition sources and moisture.

### 10.5. Incompatible materials

Incompatible materials such as strong bases, strong acids, strong oxidizing agents, perchloric acid, chromyl chloride and polymerization catalysts.

### 10.6. Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicokinetics, metabolism and distribution</b>	No experimental data for this preparation available.
<b>Acute toxicity</b>	LD50:4700mg/Kg(Oral,Rat); LD50: 5500mg/Kg(Oral,Mouse); LD50: 9530uL/kg(Skin,Rabbit); LDL0:400-1600mg/Kg(Oral,Man); TDL0:1.2-16g/Kg(Oral,Man).
<b>Skin corrosion/irritation</b>	No corrosive/irritant effect.
<b>Serious eye Damage/irritation</b>	No experimental data for this preparation available.
<b>Respiratory or skin Sensitisation</b>	No experimental data for this preparation available.
<b>Germ cell mutagenicity</b>	No experimental data for this preparation available.
<b>Carcinogenicity</b>	No experimental data for this preparation available.
<b>Reproductive toxicity</b>	No experimental data for this preparation available.
<b>STOT-single exposure</b>	No experimental data for this preparation available.
<b>STOT-repeated exposure</b>	No experimental data for this preparation available.
<b>Aspiration hazard</b>	No experimental data for this preparation available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Rainbow trout: LC50 : 41000 mg/L,96 Hr; Shrimp (salt water) LC50: >100ppm,48Hr.

### 12.2. Persistence and degradability

On soil, substance may leach to groundwater and biodegrade rapidly. In water, substance readily biodegrades. In air, substance reacts with hydroxyl radicals (T1/2= 1

day).

#### 12.3. Bioaccumulative potential

Substance is not expected to bioconcentrate in marine life.

#### 12.4. Mobility in soil

This material is expected to readily biodegrade or leach into groundwater when it released into soil. And it is expected to readily biodegrade after leached into water.

#### 12.5. Results of PBT and vPvB assessment

Not applicable.

#### 12.6. Other adverse effects

Not applicable.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Dispose of waste product, unused product and contaminated packaging in accordance with local requirements. To ensure compliance we recommend that you contact the relevant(local) authorities and/or an approved waste-disposal company for information.

### **SECTION 14: Transport information**

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

Not applicable.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

This product is not designated as a marine pollutant by the Department of Transportation.

#### 14.6. Special precautions for user

See chapter 7 and chapter 8 for information.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code



Not applicable.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU regulations:** This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

Date of last revision(year/month/day): 2017/04/20

edition 1.0

Information of this Safety Data Sheet represents the today's state of our knowledge. The purpose is to characterise the product regarding safety precautions having to be kept. This document will not be a certification of features and will not be the basis of a legal contract.