



## Safety Data Sheet

Version 2.2

Revision Date: 03/21/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

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Product Name: Fluoroliposome®-Dil

Product Number: CLD-8911

Brand: FLUOROLIPOSOME®

Company Address: ENCAPSUL89A NANOSCIENCES LLC  
5409 Maryland Way, Suite 360  
Brentwood, TN, 37027

Technical Phone: 615-884-4442

Fax: 615-250-8747

Emergency Phone: 615-438-8553

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT NAME	CAS#	PERCENT
Water	7732-18-5	>90
Sodium chloride	7647-14-5	<5
Potassium chloride	7447-40-7	<5
Disodium phosphate	7558-79-4	<5
Potassium phosphate	7758-11-4	<5
L- $\alpha$ -phosphatidylcholine	8002-43-5	<5
Cholesterol	57-88-5	<5
1,1'-Dioctadecyl-3,3',3'-tetramethylindocarbocyanine perchlorate (Dil)	41085-99-8	<5

### 3. HAZARDS IDENTIFICATION

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#### OSHA

No known OSHA hazards.

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Not a hazardous mixture of substance.

**HMIS RATING**

HEALTH HAZARDS:	0
FLAMMABILITY:	0
CHRONIC HEALTH HAZARDS:	0
PHYSICAL HAZARDS:	0

**NFPA RATING**

HEALTH HAZARD:	0
FLAMMABILITY:	0
REACTIVITY:	0

**POTENTIAL HEALTH EFFECTS**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

#### 4. FIRST AID MEASURES

**ORAL EXPOSURE**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**INHALATION EXPOSURE**

If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**DERMAL EXPOSURE**

In case of contact, immediately wash skin with soap and copious amounts of water. Contact a physician.

**EYE EXPOSURE**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Contact a physician.

## 5. FIRE FIGHTING MEASURES

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**FLAMMABILITY**

Not flammable or combustible.

**EXTINGUISHING MEDIA**

It is suitable to use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**HAZARDOUS COMBUSTION PRODUCTS**

Hazardous decomposition products formed under fire conditions, carbon oxides, nitrogen oxides and sulfur oxides.

## 6. ACCIDENTAL RELEASE MEASURES

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**METHODS FOR CLEANING UP**

Absorb any spilled material quickly using absorbent pads. Wipe area to remove as much of the liquid as possible. Apply bleach to the affected area and let sit for several hours. Clean the affected area thoroughly with soap and water to remove the bleach. Collect all cleanup materials and dispose of them in accordance with local, state and federal waste disposal laws.

**ENVIRONMENTAL PRECAUTIONS**

Do not let product enter drains. If safe to do so prevent further leakages or spills.

**PERSONAL PRECAUTIONS**

Use personal protective equipment. Avoid breathing in vapors, mist or gas. Ensure adequate ventilation. Prepare evacuation sites.

## 7. HANDLING AND STORAGE

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**HANDLING**

User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling.

**STORAGE**

Suitable: Keep in tightly closed container. Store in temperature between approximately 2-8 °C. Do not freeze.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION



### ENGINEERING CONTROLS

Appropriate industrial hygiene.



### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Where protection is desired, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand: Compatible chemical-resistant gloves

Eye: Where protection is desired, use chemical safety goggles with side shades conforming to EN166.



Skin and Body: Wear a complete suit protecting against chemicals, if desired.

### GENERAL HYGIENE MEASURES

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Pink Liquid Dispersion
<b>Safety data</b>	pH 7.4
<b>Melting point</b>	N/A
<b>Boiling point</b>	N/A
<b>Flash point</b>	N/A
<b>Ignition Temperature</b>	N/A
<b>Lower explosion limit</b>	N/A
<b>Upper Explosion limit</b>	N/A
<b>Water Solubility</b>	N/A
<b>Density</b>	N/A

## 10. STABILITY AND REACTIVITY

### STORAGE STABILITY

Store under recommended conditions.

### MATERIALS TO AVOID

Strong oxidizing agents

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions- Carbon oxides, nitrogen oxides, sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the IARC.

OHSA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the OHSA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the ACGIH.

EPA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the EPA.

### ACUTE TOXICITY

No data available

### Irritation and Corrosion

No data available

### ROUTE OF EXPOSURE

<u>Skin Contact:</u>	May cause skin irritation
<u>Skin Absorption:</u>	May be harmful if absorbed through the skin
<u>Eye Contact:</u>	May cause eye irritation
<u>Inhalation:</u>	Materials may be irritating to mucous membranes and upper respiratory tract.
<u>Ingestion:</u>	May be harmful if swallowed

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)	N/A
Ecotoxicity effects	N/A
Further information on ecology	N/A

## 13. DISPOSAL CONSIDERATIONS

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**PRODUCT**

Observe all federal, state, and local environment regulations. Contact a licensed professional waste disposal service to remove this material.

**CONTAMINATED PACKAGING**

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

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**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

## 15. REGULATORY INFORMATION

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**OSHA HAZARDS**

No known OSHA hazards

**SARA 302 COMPONENTS**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 COMPONENTS**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**SARA 311/312 HAZARDS**

No SARA hazards

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS**

This product does not contain any chemicals known to the state of MA to cause cancer, birth, or other reproductive defects.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

	CAS-No.	Revision Date
Water	7732-18-5	
Sodium chloride	7647-14-5	
Potassium chloride	7447-40-7	
Disodium phosphate	7558-79-4	
Potassium phosphate	7758-11-4	
L- $\alpha$ -phosphatidylcholine	8002-43-5	
Cholesterol	57-88-5	
1,1'-Dioctadecyl-3,3',3'-tetramethylindocarbocyanine perchlorate (Dil)	41085-99-8	

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

	CAS-No.	Revision Date
Water	7732-18-5	
Sodium chloride	7647-14-5	
Potassium chloride	7447-40-7	
Disodium phosphate	7558-79-4	
Potassium phosphate	7758-11-4	
L- $\alpha$ -phosphatidylcholine	8002-43-5	
Cholesterol	57-88-5	
1,1'-Dioctadecyl-3,3',3'-tetramethylindocarbocyanine perchlorate (Dil)	41085-99-8	

**CALIFORNIA PROP. 65 COMPONENTS**

This product does not contain any chemicals known to the state of CA to cause cancer, birth, or other reproductive defects.

## 16. OTHER INFORMATION

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The above information is believed to be correct but does not support to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Encapsula NanoSciences LLC shall not be held liable for any damage resulting from handling or from contact with the above product.