

## Safety Data Sheet

<b>Doc ID:</b> SDS-0116	<b>Effective Date:</b> 2/16/2021	<b>Revision:</b> A
<b>Trade name</b>	FITC Diluent	

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

#### 1.1 Product identifier

<b>Trade name</b>	FITC Diluent
<b>Cat #</b>	FD001-100

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

For in vitro diagnosis.

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

Diagnostic BioSystems, Inc.  
6616 Owens Drive  
Pleasanton, CA 94588  
(925) 484-3350  
Customersupport@dbiosys.com

#### 1.4 Emergency telephone number

+1 925 484 3350; 8AM-5PM(PST)

### SECTION 2: Hazards Identification


#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

According to Regulation (EC) No 1272/2008 the mixture is classified as hazardous.

Hazard Class	Category	Hazard Statements (for pure substances)
Aquatic Chronic	3	H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

<b>Signal Word</b>	Warning
<b>Pictogram</b>	
<b>H-Statements</b>	H412 Harmful to aquatic life with long lasting effects.
<b>P-Statements</b>	P273 Avoid release to the environment.
<b>EUH-Statements</b>	-
<b>Other</b>	Safety Data Sheet available on request.

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### 2.3 Other hazards

Results of PBT and vPvB assessment:  
Substance(s) does/do not meet the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

Name	Concentration	Classification (for pure substances)
Sodium Azide EC: 247-852-1 CAS: 26628-22-8	<0.5%	H300+H310 Acute Tox. 2 H400 Aquatic Acute 1 H410 Aquatic Chronic
Phosphate Buffered Saline EC-No. : N/A CAS-No. : N/A	10%	Not classified.

SVHC Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>If inhaled</b>	Move to well-ventilated area and seek medical attention if needed. If individual is not breathing, begin artificial respiration immediately and obtain medical attention
<b>If on skin</b>	Wash exposed area with soap and water and get medical advice if irritation develops.
<b>If in eyes</b>	Immediately wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
<b>If swallowed</b>	Rinse mouth with water. Immediately seek medical attention and call poison control center.
<b>Self-protection of the first aider</b>	No further relevant information available for this mixture

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

No further relevant information available for this mixture.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available for this mixture.

## SECTION 5: Firefighting measures

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### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water, dry chemical, carbon dioxide or appropriate foam
<b>Unsuitable extinguishing media</b>	No further relevant information available.

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

<b>Hazardous combustion products</b>	No further relevant information available.
<b>Other information</b>	Avoid inhalation of toxic fumes.

### 5.3 Advice for firefighters

<b>Protective equipment:</b>	Wear protective clothing containing self-contained breathing apparatus.
<b>Additional information</b>	Collected contaminated firefighting water separately. It must not enter drains. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

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

<b>Protective equipment</b>	Ensure adequate ventilation Eye Protection: Wear goggles or safety glasses Hand protection: Wear latex or vinyl gloves Other protective equipment: Use lab coat or apron to prevent contact with eyes, skin and clothing
<b>Emergency procedures</b>	No further relevant information available.
<b>For emergency responders</b>	No further relevant information available.

### 6.2 Environmental precautions

Do not allow to enter sewage system.
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### 6.3 Methods and material for containment and cleaning up

<b>For cleaning up</b>	Use universal precautions during clean up procedures. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Use liquid absorbent material to absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
<b>Other information</b>	No further relevant information available.

### 6.4 Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.
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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

<b>Measures to prevent fire</b>	No further relevant information available.
<b>Measures to prevent aerosol and dust generation</b>	No further relevant information available.
<b>Measures to protect the environment</b>	No further relevant information available.
<b>Advice on general occupational hygiene</b>	Observe label precautions. Open and handle container with care. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Do not ingest. Do not eat, drink when handling this product, and wash hands after handling.

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

<b>Technical measures and storage conditions</b>	Store container tightly closed in a cool location. Reseal opened containers carefully and keep them upright to prevent any leakage. Store at 2°C to 8°C
<b>Storage class</b>	See respective national guidelines.
<b>Other information</b>	For this mixture no further information available.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no specific uses are stipulated.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Additional information about design of technical systems:** No further data, See Section 7.

Components with critical values that require monitoring at the workplace:	
26628-22-8 sodium azide	
WEL	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> (as NaN <sub>3</sub> ), Sk
AGW	Long-term value: 0.2 mg/m <sup>3</sup> 2(I); DFG, EU

**DNELs** No further information available.

**PNECs** No further information available.

Additional information: The official lists that were valid during the compilation were used as basis.

#### 8.2 Exposure controls

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<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and skin. Remove contaminated clothing immediately. Do not eat or drink while working. Keep away from food and beverages. Wash hands during breaks and at the end of work.
<b>Respiratory Protection</b>	Use in well-ventilated laboratory. No special precautions are necessary if handled correctly.
<b>Skin</b>	Disposable medical gloves (AQL 1.5) The breakthrough times stated below base on laboratory test methods which cannot fully simulate working conditions. It is the responsibility of the end user to choose the appropriate gloves for his application. If working with substances or mixtures harmful in contact with skin, check the gloves beforehand for holes and fissures. Material of gloves: Natural rubber (NR), Nitrile rubber (NBR), Thickness: 0.11 mm, the product quality has to comply with DIN EN 455 Penetration time: > 120 min Product has not been designed for permanent contact.
<b>Body protection</b>	Wear protective work clothing.
<b>Eye/face Protection</b>	Wear safety glasses (standard EN 166)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear, Liquid
<b>Odor</b>	Odorless
<b>Order Threshold</b>	No information available.
<b>pH</b>	7.5
<b>Melting Point/ Freezing Point</b>	No information available.
<b>Initial Boiling Point/ Freezing Point</b>	No information available.
<b>Flash Point</b>	No information available.
<b>Evaporation Rate</b>	No information available.
<b>Flammability</b>	No information available.
<b>Upper/Lower Flammability or Explosive Limits</b>	No information available.
<b>Vapor Pressure</b>	No information available.
<b>Vapor Density</b>	No information available.
<b>Relative Density</b>	No information available.
<b>Solubility</b>	No information available.
<b>Partition Coefficient: n-octanol/water</b>	No information available.
<b>Auto-Ignition Temperature</b>	No information available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity</b>	No information available.

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<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No information available.
<b>Flash point</b>	No information available.
<b>Flash point method</b>	No information available.
<b>Autoignition temperature</b>	No information available.
<b>Upper flame limit (volume % in air)</b>	No information available.
<b>Lower flame limit (volume % in air)</b>	No information available.
<b>Flame propagation rate (solids)</b>	No information available.
<b>Osha flammability class</b>	No information available.

### 9.2 Other Information

No information available.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

For this mixture no relevant information available.

### 10.2 Chemical Stability

Stable under recommended storage conditions

### 10.3 Possibility of Hazardous Reactions

No further relevant information available.

### 10.4 Conditions to Avoid

Strong prolonged heat and contact with incompatible materials

### 10.5 Incompatible Materials

Strong Acids  
Strong Bases  
Strong Oxidizers  
Metals and Metallic compounds

Sodium Azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains result in the buildup of shock sensitive compounds.

### 10.6 Hazardous Decomposition Products

No further relevant information available.

## SECTION 11: Toxicological Information

<b>Sodium Azide (in pure form):</b> mouse LD50 oral 27mg/kg (27mg/kg)	
<b>Common route of entry</b>	Ingestion

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<b>Acute toxicity</b>	Its concentration of sodium azide is low (<0.1%) in this product, but it is highly toxic when ingested in pure form.
<b>Skin corrosion/irritation</b>	Overexposure may cause irritation of skin
<b>Serious eye damage/irritation</b>	Overexposure may cause irritation of eyes
<b>Respiratory or skin sensitization</b>	No sensitizing effect known.
<b>Germ cell mutagenicity</b>	Based on the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on the available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on the available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on the available data, the classification criteria are not met.

## SECTION 12: Ecological Information

### 12.1 Toxicity

Preservatives normally are toxic for aquatic organisms when using pure substances. No ecological problems are to be expected when this product is handled and used with care and attention.

### 12.2 Persistence and Degradability

No relevant information available.

### 12.3 Bioaccumulative potential

No relevant information available.

### 12.4 Mobility in Soil

No relevant information available.

### 12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other Adverse Effects

No relevant information available.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Recommendation for uncleaned packaging: Uncleaned packaging has to be disposed of in the same manner as the product residues.

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### SECTION 14: Transport Information

#### 14.1 UN Number

-

#### 14.2 UN Proper Shipping Name

-

#### 14.3 Transport Hazard Class (es)

-

#### 14.4 Packing Group

-

#### 14.5 Environmental Hazards

Marine pollutant: No

#### 14.6 Special Precautions for User

-

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

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### SECTION 15: Regulatory Information

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

Labelling according to Regulation (EC) No 1272/2008 See Section 2.

##### National regulations

##### Information about limitation of use:

Take note of the directive on the protection of young people at work in the latest version.

Take note of the directive on the safety and health at work for pregnant and breast feeding mothers and workers of childbearing age in the latest version.

**Water hazard class:** Water hazard class 1 (self-assessment): slightly hazardous for water.

#### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

### SECTION 16: Other Information



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### Relevant phrases

H300 Fatal if swallowed.  
H310 Fatal in contact with skin.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises danger uses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 2: Acute toxicity – Category 2  
Acute Tox. 1: Acute toxicity – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3