

Safety Data Sheet

Section 1 : Identification

Product Name: FITC CONJUGATE

Product Code: Various

Product Form: Mixture

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

Laboratory reagent

Manufacturer Name: Bion Enterprises, Ltd.

Emergency Telephone Number: (847) 544-5044

Address: 455 State Street, Suite 100
Des Plaines, IL 60016

Telephone Number for Information: (847) 544-5044

Date Prepared: See bottom of page

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification

Product is not classified as hazardous according to 29CFR 1910.1200 (OSHA Hazard Communication Standard)

2.2 GHS label elements, including precautionary statements

Not applicable

2.3 Other Hazards

FITC Conjugate: This mixture contains material of human or animal origin and is therefore considered potentially infectious.

Section 3: Composition / Information on Ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

FITC Conjugate: FITC Conjugate <0.001% (CCP FITC) or <0.01% (CCG,CCM FITC), or <0.1% (CXCG, CXCM FITC) in phosphate buffered saline; <0.001% or <0.01% or <0.1% Evans Blue; Sodium azide <0.09%, Thimerosal <0.1% as preservative and Bovine Serum Albumin (BSA) Fraction V

Hazardous component: Thimerosal

CAS-No. 54-64-8

Index-No. 080-004-00-7

Concentration <0.1%

Hazardous component: Evans blue dye

CAS-No. 314-13-6

Index-No. 611-030-00-4

Concentration <0.01%

Hazardous component: Sodium azide

CAS-No. 26628-22-8

Index-No. 011-004-00-7

Concentration <0.1%

FITC Conjugate

Symbol/Pictogram: None

Signal Word: None

H-statements: H300, H310, H373, H400, H410

P-statements: None

For the full text of H-statements and P-statements mentioned in this Section, see Section 16.

Section 4: First-Aid Measures

4.1 Description of first aid measures

After inhalation

Fresh air. Consult a physician if feeling unwell.

After skin contact

Wash with plenty of water. Immediately remove any contaminated clothing. Treat affected areas with skin disinfectant. Consult physician.

After eye contact

In case of contact with eye flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After swallowing

Induce vomiting when the affected person is unconscious. Rinse your mouth immediately and drink plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or measure

Not combustible. Danger of formation of toxic pyrolysis products. Fire can cause: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters. In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Advice for non-emergency personnel

Do not breathe vapours/aerosols. Avoid substance contact. Provide adequate ventilation. Evacuate the danger area. Follow emergency procedures. Consult an expert.

Advice for emergency responders

Protective equipment see Section 8.

6.2 Environmental precautions

Do not allow to enter into surface water, drains, or soil.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling

When using do not eat, drink, or smoke. Thorough skin-cleaning after handling the product.

Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Store at 2°C to 8°C.

Storage class: 12 (non-combustible liquids)

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

FITC Conjugate

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium azide CAS No. 26628-22-8	Ceiling: 0.29 mg/m ³ Sodium azide Ceiling: 0.11 ppm Hydrazoic acid vapor	(vacated) S* (vacated) Ceiling: 0.1 ppm NH ₃ (vacated) Ceiling: 0.3 mg/m ³ NaN ₃	Ceiling: 0.1 ppm NH ₃ Ceiling: 0.3 mg/m ³ NaN ₃
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Thimerosal CAS No. 54-64-8 (Sodium o-(ethylmercurithio) benzoate)	TWA: 0.1 mg/m ³	Not listed	IDLH: 10 mg/m ³ TWA: 0.05 mg/m ³ Ceiling: 0.1 mg/m ³

8.2 Exposure Controls

Appropriate engineering controls

Provide adequate ventilation.

Personal protective equipment

Eye/Face protection

Protective safety glasses (goggles) with side protection approved under appropriate government standards such as NIOSH (US).

Skin/Hand protection

Wear protective gloves while handling the product. Dispose of contaminated gloves after use in accordance with the applicable laws and good laboratory practices.

Body protection

Wear suitable personal protective clothing.

Respiratory protection

Not required if the product is used as intended.

Control of environmental exposure

Do not allow to enter drains, waterways, or soil.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance/Color	Light blue fluid in polyethylene bottle.
Odor	Odorless
Odor Threshold	No data available.
pH	Not applicable.
Melting point	No data available.
Boiling Point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Water solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not classified as an explosive
Oxidizing properties	None

9.2 Other safety data

No additional information.

Section 10: Stability and Reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical Stability

Recommended storage temperature: 2°C to 8°C.

10.3 Possibility of hazardous reactions

Contact with acids releases toxic gases. Formation of nitrous gases is possible for FITC conjugate. Avoid contact with metals. This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds and toxic gases.

10.4 Conditions to avoid

Light, heat, moisture (will not cause a dangerous reaction, but destroys the quality of the products).

10.5 Incompatible metals

Acids, heavy metals. Avoid contact with metals. This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds and toxic gases.

10.6 Hazardous decomposition products

Nitrous gases for the following: FITC conjugate

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Skin Sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

The mixture is not classified in carcinogenicity.

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

NTP: No ingredient of this product present at levels at or greater than or equal 0.1% is identified as known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels at or greater than or equal 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available.

Teratogenicity

No data available.

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Additional Information

Quantitative data on the toxicity of this product are not available.

Section 12: Ecological Information

12.1 Toxicity

Quantitative data on the toxicity of this mixture is not available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No bioaccumulation expected.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not contain components in concentrations of 0.1% or higher classified as either persistent, Bioaccumulative and toxic (PBT) or very persistent and very Bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

No data available.

- 12.7 Other adverse effects**
Do not allow to enter drains, waterways, or soil.
- 12.8 Additional ecological information**
Entry into the environment should be avoided.

Section 13: Disposal Considerations

- 13.1 Waste treatment methods**
Waste should be disposed of in accordance with federal, state, and local environmental control regulations. When disposing of FITC Conjugate, flush drains with copious amounts of water. Disposal of packaging according to the instructions of public authorities.

Section 14: Transportation Information

DOT (US)
Not dangerous goods.

IMDG
Not dangerous goods.

IATA
Not dangerous goods.

Further Information
Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

- 15.2 Chemical safety assessment**
A chemical safety assessment was not carried out.

US Regulations

Sara 302 Components
This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

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

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants in accordance with the Clean Water Act (40 CFR 116.4)

U.S. State Right -to-know regulations

California Proposition 65
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right to Know Components
No components are subject to the Massachusetts Right to Know Act.

Chemical Name	New Jersey	Pennsylvania
Sodium azide 26628-22-8	X	X

Section 16: Other Information

Safety data for product including all components. This product is intended for professional laboratory use. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Full text to the H-Statements mentioned in heading 2:

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

List of abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
Ceiling	Maximum Limit Value
CWA	Clean Water Act
DOT	Department of Transportation
IATA	International Air Transport Association
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LD	Lethal Dose
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety & Health Administration
PBT	Persistent (P), Bioaccumulative (B), Toxic (T)
PEL	Permissible Exposure Limits
TLV	Threshold Limit Value
TWA	Time-weight Average
vPvB	Very persistent (vP), very Bioaccumulative (vB)

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.