



# IFA Conjugate with Evans Blue

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 06/11/2015 Date of issue: 06/11/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** IFA Conjugate with Evans Blue

#### 1.2. Intended Use of the Product

Diagnostic Test Component

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Zeus Scientific, Inc.

200 Evans Way

Branchburg, NJ 08876

USA

T 908-526-3744 (Continental USA)

T 800-286-2111 (Additional Information)

[www.zeusscientific.com](http://www.zeusscientific.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : 908-526-3744

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### Classification (GHS-US)

Carc. 1B H350

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)

:



GHS08

##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H350 - May cause cancer.

##### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing, and eye protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US) No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

| Name         | Product Identifier  | % (w/w) | Classification (GHS-US)   |
|--------------|---------------------|---------|---|
| Sodium azide | (CAS No) 26628-22-8 | 0.1     | Acute Tox. 2 (Oral), H300<br>Acute Tox. 1 (Dermal), H310<br>STOT RE 2, H373 |

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|                |                   |     |                       |
|----------------|-------------------|-----|-----------------------|
|                |                   |     | Aquatic Acute 1, H400 |
| Direct Blue 53 | (CAS No) 314-13-6 | 0.1 | Carc. 1B, H350        |

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. If a large amount is swallowed call a POISON CENTER or doctor.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause cancer.

**Inhalation:** Overexposure may be irritating to the respiratory system.

**Skin Contact:** Contact during a long period may cause slight irritation.

**Eye Contact:** Direct contact with the eyes is likely irritating.

**Ingestion:** Ingestion is not likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all unnecessary exposure.

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific End Use(s)

Diagnostic Test Component

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Sodium azide (26628-22-8) |  |  |
|---------------------------|--|--|
| USA ACGIH                 | ACGIH Ceiling (mg/m <sup>3</sup> )       | 0.29 mg/m <sup>3</sup>                 |
| USA ACGIH                 | ACGIH Ceiling (ppm)                      | 0.11 ppm (vapor)                       |
| USA ACGIH                 | ACGIH chemical category                  | Not Classifiable as a Human Carcinogen |
| USA NIOSH                 | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 0.3 mg/m <sup>3</sup>                  |
| USA NIOSH                 | NIOSH REL (ceiling) (ppm)                | 0.1 ppm                                |
| Alberta                   | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Alberta                   | OEL Ceiling (ppm)                        | 0.11 ppm                               |
| Alberta                   | OEL STEL (mg/m <sup>3</sup> )            | 0.3 mg/m <sup>3</sup>                  |
| British Columbia          | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| British Columbia          | OEL Ceiling (ppm)                        | 0.11 ppm                               |
| Manitoba                  | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Manitoba                  | OEL Ceiling (ppm)                        | 0.11 ppm (vapor)                       |
| New Brunswick             | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| New Brunswick             | OEL Ceiling (ppm)                        | 0.11 ppm (vapor)                       |
| Newfoundland & Labrador   | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Newfoundland & Labrador   | OEL Ceiling (ppm)                        | 0.11 ppm (vapor)                       |
| Nova Scotia               | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Nova Scotia               | OEL Ceiling (ppm)                        | 0.11 ppm (vapor)                       |
| Nunavut                   | OEL Ceiling (mg/m <sup>3</sup> )         | 0.27 mg/m <sup>3</sup>                 |
| Nunavut                   | OEL Ceiling (ppm)                        | 0.1 ppm                                |
| Northwest Territories     | OEL Ceiling (mg/m <sup>3</sup> )         | 0.27 mg/m <sup>3</sup>                 |
| Northwest Territories     | OEL Ceiling (ppm)                        | 0.1 ppm                                |
| Ontario                   | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Ontario                   | OEL Ceiling (ppm)                        | 0.11 ppm                               |
| Prince Edward Island      | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Prince Edward Island      | OEL Ceiling (ppm)                        | 0.11 ppm (vapor)                       |
| Québec                    | PLAFOND (mg/m <sup>3</sup> )             | 0.3 mg/m <sup>3</sup>                  |
| Québec                    | PLAFOND (ppm)                            | 0.11 ppm                               |
| Saskatchewan              | OEL Ceiling (mg/m <sup>3</sup> )         | 0.29 mg/m <sup>3</sup>                 |
| Saskatchewan              | OEL Ceiling (ppm)                        | 0.11 ppm                               |

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|              |                                  |                       |
|--------------|----------------------------------|-----------------------|
| <b>Yukon</b> | OEL Ceiling (mg/m <sup>3</sup> ) | 0.3 mg/m <sup>3</sup> |
| <b>Yukon</b> | OEL Ceiling (ppm)                | 0.1 ppm               |

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** In case of repeated or prolonged contact wear gloves.

**Eye Protection:** In case of splash hazard: chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|   |   |
|---|---|
| Physical State                                    | : Liquid  |
| Appearance  | : Not available   |
| Odor  | : Not available   |
| Odor Threshold                                    | : Not available   |
| pH  | : Not available   |
| Evaporation Rate                                  | : Not available   |
| Melting Point                                     | : Not available   |
| Freezing Point                                    | : Not available   |
| Boiling Point                                     | : Not available   |
| Flash Point                                       | : Not available   |
| Auto-ignition Temperature                         | : Not available   |
| Decomposition Temperature                         | : Not available   |
| Flammability (solid, gas)                         | : Not available   |
| Lower Flammable Limit                             | : Not available   |
| Upper Flammable Limit                             | : Not available   |
| Vapor Pressure                                    | : Not available   |
| Relative Vapor Density at 20 °C                   | : Not available   |
| Relative Density                                  | : Not available   |
| Specific Gravity                                  | : Not available   |
| Solubility  | : Not available   |
| Partition Coefficient: N-Octanol/Water            | : Not available   |
| Viscosity   | : Not available   |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge  | : Not expected to present an explosion hazard due to static discharge.  |

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### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.
- 10.5. Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** Contact during a long period may cause slight irritation.

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.

**Symptoms/Injuries After Ingestion:** Ingestion is not likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Sodium azide (26628-22-8)</b> |                        |
| LD50 Oral Rat                    | 27 mg/kg               |
| ATE US (dermal)                  | 5.00 mg/kg body weight |
| <b>Direct Blue 53 (314-13-6)</b> |                        |
| IARC Group                       | 3                      |

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

|                                  |   |
|----------------------------------|---|
| <b>Sodium azide (26628-22-8)</b> |   |
| LC50 Fish 1                      | 0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC 50 Fish 2                     | 0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |

**12.2. Persistence and Degradability** Not available

**12.3. Bioaccumulative Potential** Not available

**12.4. Mobility in Soil** Not available

**12.5. Other Adverse Effects**

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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### SECTION 14: TRANSPORT INFORMATION

- 14.1. In Accordance with DOT** Not regulated for transport  
**14.2. In Accordance with IMDG** Not regulated for transport  
**14.3. In Accordance with IATA** Not regulated for transport  
**14.4. In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

##### Sodium azide (26628-22-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 Listed on the United States SARA Section 302  
 Listed on United States SARA Section 313

|   |   |
|---|---|
| <b>SARA Section 302 Threshold Planning Quantity (TPQ)</b> | 500 (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form) |
| <b>SARA Section 311/312 Hazard Classes</b>                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard  |
| <b>SARA Section 313 - Emission Reporting</b>              | 1.0 %   |

##### Direct Blue 53 (314-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. US State Regulations

##### Sodium azide (26628-22-8)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List

#### 15.3. Canadian Regulations

##### IFA Conjugate with Evans Blue

|                      |   |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

##### Sodium azide (26628-22-8)

Listed on the Canadian DSL (Domestic Substances List)  
 Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

|                      |  |
|----------------------|--|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects |
|----------------------|--|

##### Direct Blue 53 (314-13-6)

Listed on the Canadian DSL (Domestic Substances List)  
 Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 06/11/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

|                       |  |
|-----------------------|--|
| Acute Tox. 1 (Dermal) | Acute toxicity (dermal) Category 1                             |
| Acute Tox. 2 (Oral)   | Acute toxicity (oral) Category 2                               |
| Aquatic Acute 1       | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Carc. 1B              | Carcinogenicity Category 1B                                    |
| STOT RE 2             | Specific target organ toxicity (repeated exposure) Category 2  |

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|      |   |
|------|---|
| H300 | Fatal if swallowed  |
| H310 | Fatal in contact with skin  |
| H350 | May cause cancer  |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life  |

### Party Responsible for the Preparation of This Document

Zeus Scientific, Inc. 908-526-3744

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS