

Document: D-54051  
Version: D-54051-001  
Release date: Feb 27, 2009  
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Applies to part numbers: AC2104 AC2143

## SAFETY STATEMENT

### Product and company identification

Product(s): **AzureSpectra 660/578 conjugates of fluorescent proteins with secondary antibodies.**  
Supplier: Advansta Inc.  
Address: 1505 Adams Drive, Suite B1  
Menlo Park, CA 94025  
Phone: 650-325-1980

This statement applies to all fluorescent conjugates provided for Fluorescent Western blotting applications. Conjugates are available as separate items or as components of kits designed for specific applications. Kits may include other additional items that may require separate MSDS.

### Composition/Information on Ingredients

WesternBright™ conjugates of various immunoglobulins and fluorescent phycobiliproteins (R-phycoerythrin, Allophycocyanin) supplied in solution of 10 mM Tris-HCl, 150 mM NaCl (pH 8.2) and 1 µg/ml pentachlorophenol.

Pentachlorophenol (CAS# 87-86-5) is the only hazardous or carcinogenic ingredient in these mixtures, and it is present in a very low concentration (0.0001%) as an antimicrobial stabilizer. According to the OSHA Hazard Communications Standard (29 CFR 1910.1200), if a material contains less than 1% of a hazardous chemical or less than 0.1% of a carcinogen, the mixture shall not be considered hazardous. However, precautions for handling potentially dangerous reagents should be practiced when using these products.

To aid in determining appropriate handling procedures, additional information regarding pentachlorophenol is provided below:

Hazard identification:	Pentachlorophenol is highly toxic. It is also a possible carcinogen. Chronic exposure may cause reproductive disorder(s) based on results with laboratory animals.
First aid measures	IF IN DOUBT SEEK MEDICAL ADVICE.
In case of	
contact with eyes and skin:	irrigate with plenty of water for at least 15 minutes.
ingestion:	wash mouth with water (provided victim is conscious), drink plenty of water. OBTAIN MEDICAL ATTENTION.
inhalation:	move to a well ventilated area and clear nose and throat.
Handling/exposure controls	Handle in accordance with Good Laboratory Practice. Wear appropriate protective clothing (safety goggles, chemical resistant gloves, laboratory coat).
Regulatory information	CAS # 87-86-5 is listed on the TSCA inventory and is subject to SARA section 313 reporting requirements. It is also listed as a California Prop. 65 carcinogen.

This information is supplied in good faith. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. These products are intended for research use only, not for diagnostic, household or any other use.

Document: D-54052  
Version: D-54052-001  
Release date: Jul 1, 2014  
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Printed on: Aug 20, 2014

# MATERIAL SAFETY DATA SHEET

Applies to part number: AC2112 AC2140 AC2141 AC2104 AC2142 AC2143

## Section 1 Product and company identification

Product name: **Azure Fluorescent Blot Blocking Buffer**

Supplier: Azure Biosystems, Inc.

Address: 6773 Sierra Court, Suite B  
Dublin, CA 94568  
(925) 307-7127

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## Section 2 Hazards identification

### EMERGENCY OVERVIEW:

WARNING! CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Irritating to eyes, respiratory system and skin. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

HMIS RATING	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

NFPA RATING	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## Section 3 Composition/Information on Ingredients

Ingredient	CAS #	%
Sodium Chloride	7647-14-5	5-10
Sodium Phosphate di-basic	7558-79-4	1-3
Proprietary component	N/A	1-3

Pentachlorophenol Sodium salt (CAS # 131-52-2) is added as a stabilizer at the concentration significantly below 0.1% and therefore does not require reporting in the MSDS per CFR 1910.1200(g). There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

## Section 4 - First Aid Measures

### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### DERMAL EXPOSURE

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

### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5 - Fire Fighting Measures

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.  
Not suitable: Not known

## FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

### METHODS FOR CLEANING UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

### HANDLING

#### User Exposure:

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

#### Suitable:

Keep tightly closed. Store at 2-8°C

## Section 8 - Exposure Controls / PPE

### PERSONAL PROTECTIVE EQUIPMENT

#### Respiratory:

Respiratory protection is not required. Where protection is desired.

#### Hand:

Protective gloves.

#### Eye:

Chemical safety goggles.

### GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

## Section 9 - Physical and chemical properties

### Appearance Physical State:

Colorless Liquid, water-based, pH 6.8 to 7.8

### Solvent Content:

N/A

## Section 10 - Stability and Reactivity

### STABILITY:

Stable

#### Materials to Avoid:

Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

#### Hazardous Decomposition Products:

Nature of decomposition products not known.

### HAZARDOUS POLYMERIZATION

#### Hazardous Polymerization:

Will not occur

## Section 11 - Toxicological Information

### ROUTE OF EXPOSURE

#### Skin Contact:

May cause skin irritation.

#### Skin Absorption:

May be harmful if absorbed through the skin.

#### Eye Contact:

May cause eye irritation.

#### Inhalation:

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

#### Ingestion:

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.

## Section 12 - Ecological Information

No known significant effects or critical hazards.

## Section 13 - Disposal Considerations

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

Observe all federal, state, and local environmental regulations.

Within the present knowledge of the supplier, this product is not regarded as hazardous waste.

## Section 14 - Transport Information

### DOT

#### Proper Shipping Name:

None

#### Non-Hazardous for Transport:

This substance is considered to be non-hazardous for transport.

### IATA

#### Non-Hazardous for Air Transport:

Non-hazardous for air transport.

## Section 15 - Regulatory Information

### HCS Classification:

Irritating material

Target organ effects

## Section 16      Other information

Date of last revision: May 9, 2014.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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Printed on: Aug 20, 2014

Applies to part number: AC2113 AC2104 AC2143

# MATERIAL SAFETY DATA SHEET

## Section 1 Product and company identification

Product name: **Azure Fluorescent Blot Washing Buffer**

Supplier: Azure Biosystems, Inc.

Address: 6773 Sierra Court, Suite B  
Dublin, CA 94568  
(925) 307-7127

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## Section 2 Hazards identification

### EMERGENCY OVERVIEW:

WARNING! CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Irritating to eyes, respiratory system and skin. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

HMIS RATING	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

NFPA RATING	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## Section 3 Composition/Information on Ingredients

Ingredient	CAS #	%
Sodium Chloride	7647-14-5	5-10
Sodium Phosphate di-basic	7558-79-4	1-3
Tween-20	9005-64-5	<1

Pentachlorophenol Sodium salt (CAS # 131-52-2) is added as a stabilizer at the concentration significantly below 0.1% and therefore does not require reporting in the MSDS per CFR 1910.1200(g). There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

## Section 4 First Aid Measures

ORAL EXPOSURE	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
DERMAL EXPOSURE	In case of contact, immediately wash skin with soap and copious amounts of water.
EYE EXPOSURE	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5 Fire Fighting Measures

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Not suitable: not known

FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6 Accidental Release Measures

**METHODS FOR CLEANING UP** Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 Handling and Storage

### **HANDLING**

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### **STORAGE**

Suitable: Keep tightly closed. Store at 2-8°C

## Section 8 Exposure Controls / PPE

### **PERSONAL PROTECTIVE EQUIPMENT**

Respiratory: Respiratory protection is not required. Where protection is desired.

Hand: Protective gloves.

Eye: Chemical safety goggles.

### **GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

## Section 9 Physical and chemical properties

Appearance Physical State: Colorless Liquid, water-based, pH 6.8

Solvent Content N/A

## Section 10 Stability and Reactivity

### **STABILITY**

Stable.

Materials to Avoid: Strong oxidizing agents.

### **HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous Decomposition Products: Nature of decomposition products not known.

### **HAZARDOUS POLYMERIZATION**

Hazardous Polymerization: Will not occur

## Section 11 Toxicological Information

### **ROUTE OF EXPOSURE**

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: 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.

## Section 12 Ecological Information

No known significant effects or critical hazards.

## Section 13 Disposal Considerations

### **APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION**

Observe all federal, state, and local environmental regulations.

Within the present knowledge of the supplier, this product is not regarded as hazardous waste

## Section 14 Transport Information

### **DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### **IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

## Section 15 Regulatory Information

### **HCS Classification**

Irritating material

Target organ effects

## Section 16 Other information

Date of last revision: May 9, 2014.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.