

Document: D-54052
Version: D-54052-001
Release date: Jul 1, 2014
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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.

Document: D-54075
Version: D-54075-001

MATERIAL SAFETY DATA SHEET

Release date: Jul 1, 2014 Applies to part numbers: AC2128, AC2129, AC2130, AC2131, AC2132, AC2133, AC2134, AC2140, AC2141, AC2142
Update date: Jul 1, 2014
Printed on: August 20

Section 1 Product and company identification

Product name: **AzureSpectra™ conjugates of IR700 fluorescent proteins with secondary antibodies**

Supplier: Azure Biosystems, Inc.
Address: 6773 Sierra Court, Suite B
Dublin, CA 94568

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

Ingredient	CAS #	%
Sodium Chloride	7647-14-5	1-2%
Potassium Chloride	7447-40-7	<0.1%
Sodium Phosphate, di-basic	7558-79-4	<1%
Potassium Phosphate, mono-basic	7778-77-0	<1%
Glycerol	56-81-5	40%
Pentachlorophenol	87-86-5	0.0001%

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.

Section 3 Composition/Information on Ingredients

WesternBright™ conjugates of various immunoglobulins and proprietary fluorescent dye supplied in solution of PBS, 40% glycerol and 0.0001% pentachlorophenol(CAS# 87-86-5).

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 alcohol-resistant foam.
Not suitable: Not known

FIREFIGHTING

Protective Equipment:

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

Section 6 Accidental Release Measures

METHODS FOR CLEANING UP: **Spill and Leak Response:** For small releases, treat the products as water, but take basic hygiene precautions. Lightweight gloves, lab coat, and eye protection should be worn. Absorb spilled material with paper towels. Wash contaminated area with soap and water, absorb with paper towels, and rinse with water. Trained personnel using pre-planned procedures should respond to large releases that are not immediately controlled. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

In the event of a non-incident, minimum release, personal protective equipment should be: **Level D:** lab gloves, chemical resistant apron, boots, and splash goggles. Respiratory protection should not be necessary. Absorb spilled liquid with poly pads or other suitable materials. Decontaminate the spill area thoroughly. Place all spill residues in a suitable container and seal. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations.

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 -20°C.

Section 8 - Exposure Controls / PPE

PERSONAL PROTECTIVE EQUIPMENT

Respiratory:

Respiratory protection not required. If desired, use multi-purpose respirator.

Hand:

Protective gloves.

Eye:

Chemical safety goggles.

GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

Section 9 - Physical and chemical properties

APPEARANCE PHYSICAL STATE:

Green-colored liquid with neutral pH.

Section 10 Stability and Reactivity

STABILITY:

Stable under recommended storage conditions

Materials to Avoid:

Strong oxidizing agents, acids, bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products:

Carbon oxides, nitrogen oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization:

Will not occur.

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact:

Causes skin irritation.

Skin Absorption:

May be harmful if absorbed through the skin.

Eye Contact:

Causes eye irritation.

Inhalation:

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion:

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.

Section 15 Regulatory Information

OSHA Hazards: Target organ effect. Harmful by ingestion. Irritant.

Section 16 Other information

Date of last revision: May 19 2014.

For R&D use only. Not for drug, household or other uses.

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.

Document: D-54076
Version: D-54076-001

MATERIAL SAFETY DATA SHEET

Release date: Jul 1, 2014
Update date: Jul 1, 2014
Printed on: Jul 1, 2014

Applies to part numbers: AC2134, AC2135, AC2136, AC2137, AC2138, AC2139, AC2140, AC2141, AC2142

Section 1 Product and company identification

Product name: **AzureSpectra conjugates of IR800 fluorescent proteins with secondary antibodies**

Supplier: Azure Biosystems, Inc..
Address: 6773 Sierra Court, Suite B
Dublin, CA 94568

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

Ingredient	CAS #	%
Sodium Chloride	7647-14-5	1-2%
Potassium Chloride	7447-40-7	<0.1%
Sodium Phosphate, di-basic	7558-79-4	<1%
Potassium Phosphate, mono-basic	7778-77-0	<1%
Glycerol	56-81-5	40%
Pentachlorophenol	87-86-5	0.0001%

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.

Section 3 Composition/Information on Ingredients

WesternBright™ conjugates of various immunoglobulins and proprietary fluorescent dye supplied in solution of PBS, 40% glycerol and 0.0001% pentachlorophenol(CAS# 87-86-5).

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 alcohol-resistant foam.
Not suitable: Not known

FIREFIGHTING

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

Section 6 Accidental Release Measures

METHODS FOR CLEANING UP: **Spill and Leak Response:** For small releases, treat the products as water, but take basic hygiene precautions. Lightweight gloves, lab coat, and eye protection should be worn. Absorb spilled material with paper towels. Wash contaminated area with soap and water, absorb with paper towels, and rinse with water. Trained personnel using pre-planned procedures should respond to large releases that are not immediately controlled. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

In the event of a non-incident, minimum release, personal protective equipment should be: **Level D:** lab gloves, chemical resistant apron, boots, and splash goggles. Respiratory protection should not be necessary. Absorb spilled liquid with poly pads or other suitable materials. Decontaminate the spill area thoroughly. Place all spill residues in a suitable container and seal. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations.

Section 7 - Handling and Storage

HANDLING

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

Suitable:	Keep tightly closed. Store at -20°C.
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Section 8 - Exposure Controls / PPE

PERSONAL PROTECTIVE EQUIPMENT

Respiratory:	Respiratory protection not required. If desired, use multi-purpose respirator.
Hand:	Protective gloves.
Eye:	Chemical safety goggles.

GENERAL HYGIENE MEASURES:	Wash thoroughly after handling.
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Section 9 - Physical and chemical properties

APPEARANCE PHYSICAL STATE:	Green-colored liquid with neutral pH.
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Section 10 Stability and Reactivity

STABILITY:	Stable under recommended storage conditions
Materials to Avoid:	Strong oxidizing agents, acids, bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides.
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HAZARDOUS POLYMERIZATION

Hazardous Polymerization:	Will not occur.
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Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact:	Causes skin irritation.
Skin Absorption:	May be harmful if absorbed through the skin.
Eye Contact:	Causes eye irritation.
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion:	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.
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Section 15 Regulatory Information

OSHA Hazards: Target organ effect. Harmful by ingestion. Toxic by skin absorption. Irritant.

Section 16 Other information

Date of last revision: May 19 2014.

For R&D use only. Not for drug, household or other uses.

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.

Version: D-54077-001
Release date: Jul 1, 2009
Update date: Jul 1, 2014
Printed on: Aug 20, 2014

MATERIAL SAFETY DATA SHEET

Applies to part number: AC2145 AC2140 AC2141 AC2142

Section 1 Product and company identification

Product name: **Azure Fluorescent IR 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	1-10%
SDS	151-21-3	<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.