

**Kit SDS Cover Sheet**Doc. ID: IM2042-75: Rev. AC  
Revised (year/month/day) 2013/05/16**Product Information****Product Name** sFas ELISA Kit**Part Number** IM2042**Additional Product Information**

For Research Use Only. See product literature for details.

This kit contains a microtiter plate that is considered an article and thereby exempt from SDS requirements.

**Components**

<b>Description</b>	Calibrator HRP Conjugate Conjugate diluent Assay diluent Wash Solution Substrate Stop Solution H <sub>2</sub> SO <sub>4</sub>
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**Transport Information**

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>UN/ID Number</b>	2796	2796	2796	2796	2796
<b>Shipping Name</b>	Sulfuric acid solution				
<b>Hazard Class</b>	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
<b>Subsidiary Risk</b>	None	None	None	None	None
<b>Classification Code</b>	Not applicable	Not applicable	Not applicable	C1	Not applicable
<b>Packing Group</b>	II	II	II	II	II
<b>Special Provisions</b>	None	None	Not applicable	Not applicable	Not applicable
<b>Additional information</b>					
<b>IATA ERG Code</b>	8L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
<b>NAERG Code</b>	Not applicable	Not applicable	157	Not applicable	157

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**Transport Information (Continued)**

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**Environmental Hazard****Marine Pollutant**

Not applicable

No

Not applicable

Not applicable

Not applicable

**Special Precautions for users**

None



## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
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### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Calibrator  
**Part Number** Component of P/N IM2042

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

**Product Use** Data given is for reconstituted solution.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Lyophilized - Liquid after reconstitution.; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

##### US OSHA

Not applicable

##### WHMIS

Not applicable

##### Potential Health Effects Summary

This product does not meet EU, OSHA or WHMIS criteria for hazardous materials. However, it does contain material of biological origin and should be considered potentially infectious.

#### 2.2 Label Elements

##### According to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

## Section 2 Hazards Identification (Continued)

### According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

#### 2.3 Other Hazard

Contains material of biological origin.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and Information on Ingredients

### 3.2 Mixture

Hazardous Ingredients: None

## Section 4 First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

#### Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

#### Skin Contact

Remove any contaminated clothing. Wash affected area with plenty of soap and water. Use disinfectant if possible.

#### Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

## Section 5 Fire Fighting Measures

**Flammable Properties** Nonflammable solution.

**5.1 Extinguishing Media** Use extinguishing media suitable for surrounding fire.

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

#### Special Fire and Explosion Hazards

None identified

#### Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product.

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## Section 5 Fire Fighting Measures (Continued)

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### 5.3 Advice for fire fighters

#### Protective Equipment

Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### 5.4 Additional information

None

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## Section 6 Accidental Release Measures

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

#### Personal Precautions

This product contains a material of biological origin. Use universal precautions during clean up procedures.

### 6.2 Environmental Precautions

Contain spill to prevent migration.

### 6.3 Methods and material for containment and cleaning up

#### Spill and Leak Procedures

As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

### 6.4 Reference to other sections

Refer sections 8 and 13.

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## Section 7 Handling and Storage

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### 7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

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

Keep away from incompatible material (see Section 10).

To maintain efficacy, store according to the instructions in the product labeling.

### 7.3 Specific end uses

No data available.

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## Section 8 Exposure Controls and Personal Protection

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### 8.1 Control parameters

#### Exposure Limits

##### US OSHA

None established

##### ACGIH

None established

##### DFG MAK

None established

##### Ireland

None established

##### NIOSH

None established

##### Japan

None established

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

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### Section 8 Exposure Controls and Personal Protection (Continued)

<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.

### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Lyophilized - Liquid after reconstitution.	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	Not determined	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

9.2 Other Information None

### Section 10 Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	None
10.4 Conditions to Avoid	Keep away from incompatible material.

## Section 10 Stability and Reactivity (Continued)

**10.5 Incompatible materials** Strong acids  
Strong bases  
Strong oxidizers

**10.6 Hazardous Decomposition Products**

No decomposition products posing significant hazards would be expected from this product.

## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

**Toxicity Data for Hazardous Ingredients**

Not applicable

**Primary Routes of Exposure** Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

**Carcinogenicity** This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

**Potential Effects of Acute Exposure**

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

**Potential Effects of Chronic Exposure**

Effects are similar to those for acute exposure.

**Symptoms of Overexposure** None identified

**Conditions Aggravated by Exposure**

None identified

**Other Information**

None identified

## Section 12 Ecological Information

### 12.1 Ecotoxicity

**Fresh Water Species** No information available.

**Microtox** No information available.

**Water Flea** No information available.

**Fresh Water Algae** No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulation** No information available.

**12.4 Mobility in soil** No information available.

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## Section 12 Ecological Information (Continued)

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### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Other Adverse Effects

None

## Section 13 Disposal Considerations

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### 13.1 Waste treatment methods

#### Product Waste Disposal

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.

### 13.2 Additional information

None

## Section 14 Transport Information

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Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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

#### US Federal and State Regulations

**SARA 313** No ingredients listed.

**CERCLA RG's, 40 CFR 302.4** No ingredients listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** No ingredients listed.

#### **New Jersey Dept. of Health RTK List**

No ingredients listed.

**Pennsylvania RTK** No ingredients listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

None

#### **Ingredients with unknown toxicological properties**

None



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### Section 15 Regulatory Information (Continued)

#### 15.2 Chemical Safety Assessment Not available

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

### Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 0</b> <b>Reactivity with Water: 0</b> <b>Contact: 1</b>	<b>Code</b> 0=None 1=Slight 2=Caution 3=Severe
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<b>Revision Changes</b>	Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.
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For further information, please contact your local Beckman Coulter representative.

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## SAFETY DATA SHEET

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Revised (year/month/day) 2013/05/16

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** HRP Conjugate  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

**US OSHA** Not applicable

**WHMIS** Not applicable

#### 2.2 Label Elements

##### According to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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## Section 2 Hazards Identification (Continued)

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### 2.3 Other Hazard

This product does not meet EU, OSHA or WHMIS criteria for hazardous materials. However, it does contain material of animal origin and should be considered potentially infectious.

Contains material of animal origin.

See Section 11 Toxicological Information for more detailed health information.

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## Section 3 Composition and Information on Ingredients

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### 3.2 Mixture

Hazardous Ingredients: None

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## Section 4 First Aid Measures

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### 4.1 Description of first aid measures

#### Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

#### Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

#### Skin Contact

Remove any contaminated clothing. Wash affected area with plenty of soap and water. Use disinfectant if possible.

#### Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

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## Section 5 Fire Fighting Measures

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**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** Use extinguishing media suitable for surrounding fire.

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

#### Special Fire and Explosion Hazards

None identified

#### Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

## Section 5 Fire Fighting Measures (Continued)

### 5.3 Advice for fire fighters

#### Protective Equipment

Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### 5.4 Additional information

None

## Section 6 Accidental Release Measures

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

#### Personal Precautions

This product contains a material of biological origin. Use universal precautions during clean up procedures.

### 6.2 Environmental Precautions

Contain spill to prevent migration.

### 6.3 Methods and material for containment and cleaning up

#### Spill and Leak Procedures

As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

### 6.4 Reference to other sections

Refer sections 8 and 13.

## Section 7 Handling and Storage

### 7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

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

Keep away from incompatible material (see Section 10).

To maintain efficacy, store according to the instructions in the product labeling.

### 7.3 Specific end uses

No data available.

## Section 8 Exposure Controls and Personal Protection

### 8.1 Control parameters

#### Exposure Limits

##### US OSHA

None established

##### ACGIH

None established

##### DFG MAK

None established

##### Ireland

None established

##### NIOSH

None established

##### Japan

None established

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

## SAFETY DATA SHEET

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### Section 8 Exposure Controls and Personal Protection (Continued)

<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.

### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	Not determined	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

9.2 Other Information None

### Section 10 Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	None
10.4 Conditions to Avoid	Keep away from incompatible material.

## SAFETY DATA SHEET

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### Section 10 Stability and Reactivity (Continued)

**10.5 Incompatible materials**      Strong acids  
   Strong bases  
   Strong oxidizers

**10.6 Hazardous Decomposition Products**

No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

### Section 11 Toxicological Information

**11.1 Information on toxicological effects**

**Toxicity Data for Hazardous Ingredients**

Not applicable

**Primary Routes of Exposure**      Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

**Carcinogenicity**                      This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

**Potential Effects of Acute Exposure**

This product contains materials of animal origin and should be considered potentially infectious. No other health hazards were identified from a review of available literature.

**Potential Effects of Chronic Exposure**

Effects are similar to those for acute exposure.

**Symptoms of Overexposure**      None identified

**Conditions Aggravated by Exposure**

None identified

**Other Information**                      None identified

### Section 12 Ecological Information

**12.1 Ecotoxicity**

**Fresh Water Species**                      No information available.

**Microtox**                                      No information available.

**Water Flea**                                      No information available.

**Fresh Water Algae**                          No information available.

**12.2 Persistence and degradability**      No information available.

**12.3 Bioaccumulation**                      No information available.

**12.4 Mobility in soil**                          No information available.

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## Section 12 Ecological Information (Continued)

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### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Other Adverse Effects

None

## Section 13 Disposal Considerations

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### 13.1 Waste treatment methods

#### Product Waste Disposal

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.

### 13.2 Additional information

None

## Section 14 Transport Information

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Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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

#### US Federal and State Regulations

**SARA 313** No ingredients listed.

**CERCLA RG's, 40 CFR 302.4** No ingredients listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** No ingredients listed.

#### **New Jersey Dept. of Health RTK List**

No ingredients listed.

**Pennsylvania RTK** No ingredients listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

None

#### **Ingredients with unknown toxicological properties**

None

## SAFETY DATA SHEET

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### Section 15 Regulatory Information (Continued)

#### 15.2 Chemical Safety Assessment Not available

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

### Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 0</b> <b>Reactivity with Water: 0</b> <b>Contact: 1</b>	<b>Code</b> 0=None 1=Slight 2=Caution 3=Severe
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<b>Revision Changes</b>	Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.
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For further information, please contact your local Beckman Coulter representative.

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## SAFETY DATA SHEET

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### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Conjugate diluent  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

**US OSHA** Not applicable

**WHMIS** Not applicable

#### 2.2 Label Elements

##### According to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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## Section 2 Hazards Identification (Continued)

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**2.3 Other Hazard** None identified

See Section 11 Toxicological Information for more detailed health information.

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## Section 3 Composition and Information on Ingredients

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### 3.2 Mixture

**Hazardous Ingredients:** None

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## Section 4 First Aid Measures

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### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

**Ingestion** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

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## Section 5 Fire Fighting Measures

---

**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** Use extinguishing media suitable for surrounding fire.

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

#### Special Fire and Explosion Hazards

None identified

#### Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

### 5.3 Advice for fire fighters

**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters.

**5.4 Additional information** None

## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 6 Accidental Release Measures

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- |            |   |  |
|------------|---|--|
| <b>6.1</b> | <b>Personal precaution, protective equipment and emergency procedures</b> |  |
|            | <b>Personal Precautions</b>   | No special precautions are necessary. Use good laboratory procedures.  |
| <b>6.2</b> | <b>Environmental Precautions</b>  | Contain spill to prevent migration.  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>               |  |
|            | <b>Spill and Leak Procedures</b>  | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. |
| <b>6.4</b> | <b>Reference to other sections</b>  | Refer sections 8 and 13.   |

### Section 7 Handling and Storage

- 
- |            |   |  |
|------------|---|--|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | No special precautions are necessary; use good laboratory procedures.              |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> |  |
|            |   | Keep away from incompatible material (see Section 10).                             |
|            |   | To maintain efficacy, store according to the instructions in the product labeling. |
| <b>7.3</b> | <b>Specific end uses</b>  | No data available.   |

### Section 8 Exposure Controls and Personal Protection

- 
- |            |                               |  |
|------------|-------------------------------|--|
| <b>8.1</b> | <b>Control parameters</b>     |  |
|            | <b>Exposure Limits</b>        |  |
|            | <b>US OSHA</b>                | None established   |
|            | <b>ACGIH</b>                  | None established   |
|            | <b>DFG MAK</b>                | None established   |
|            | <b>Ireland</b>                | None established   |
|            | <b>NIOSH</b>                  | None established   |
|            | <b>Japan</b>                  | None established   |
| <b>8.2</b> | <b>Exposure controls</b>      |  |
|            | <b>Engineering Controls</b>   | No special engineering controls are required. Use with good general ventilation.   |
|            | <b>Eye Protection</b>         | Safety glasses or chemical goggles should be worn to prevent eye contact.<br>Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.                 |
|            | <b>Skin Protection</b>        | Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.<br>Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards. |
|            | <b>Respiratory Protection</b> | Under normal conditions, the use of this product should not require respiratory protection.  |

# SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	Not determined	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

**9.2 Other Information** None

## Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	None
<b>10.2 Chemical Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>10.3 Possibility of hazardous reactions</b>	None
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Strong acids Strong bases Strong oxidizers
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Data for Hazardous Ingredients

Not applicable

**Primary Routes of Exposure** The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

**Carcinogenicity** This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

#### Potential Effects of Acute Exposure

None identified

#### Potential Effects of Chronic Exposure

None identified

**Symptoms of Overexposure** None identified

#### Conditions Aggravated by Exposure

None identified

**Other Information** None identified

## Section 12 Ecological Information

### 12.1 Ecotoxicity

**Fresh Water Species** No information available.

**Microtox** No information available.

**Water Flea** No information available.

**Fresh Water Algae** No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulation** No information available.

**12.4 Mobility in soil** No information available.

### 12.5 Results of PBT and vPvB assessment

Not applicable

**12.6 Other Adverse Effects** None

## Section 13 Disposal Considerations

### 13.1 Waste treatment methods

**Product Waste Disposal** 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.

**13.2 Additional information** None

## Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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

#### US Federal and State Regulations

**SARA 313** No ingredients listed.

**CERCLA RG's, 40 CFR 302.4** No ingredients listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** No ingredients listed.

#### **New Jersey Dept. of Health RTK List**

No ingredients listed.

**Pennsylvania RTK** No ingredients listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

None

#### **Ingredients with unknown toxicological properties**

None

### 15.2 Chemical Safety Assessment Not available

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

## Section 16 Other Information

### **Beckman Coulter Safety Rating**

**Flammability: 0**  
**Health: 0**  
**Reactivity with Water: 0**  
**Contact: 1**

Code  
0=None  
1=Slight  
2=Caution  
3=Severe

### **Revision Changes**

Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

For further information, please contact your local Beckman Coulter representative.

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## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Assay diluent  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Acute Toxicity Oral, Category 2

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Xn;R22

**US OSHA** Not applicable

**WHMIS** Not applicable

**Potential Health Effects Summary** May cause eye, skin and respiratory tract irritation and central nervous system depression with headache, dizziness, nausea and unconsciousness.

# SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
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## Section 2 Hazards Identification (Continued)

### 2.2 Label Elements

According to EC 1272/2008 (CLP/GHS)

#### Pictogram



#### Signal Word

DANGER

#### Hazard Statements

H300 Fatal if swallowed.

#### Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see instructions on this label).

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations

According to EC Directives (1999/45/EC and 67/548 EEC)

Harmful  
Xn



#### Risk and Safety Phrases

R22 Harmful if swallowed.

S28 After contact with skin, wash immediately with plenty of water.

### 2.3 Other Hazard

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

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and Information on Ingredients

### 3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	0.1	T+;R28-32 N;R50/53	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	Highly Toxic Irritant	D1A	

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description



## SAFETY DATA SHEET

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Revised (year/month/day) 2013/05/16

### Section 4 First Aid Measures

#### 4.1 Description of first aid measures

<b>Inhalation</b>	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
<b>Eye Contact</b>	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
<b>Skin Contact</b>	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.
<b>Ingestion</b>	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Nonflammable aqueous solution.
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<b>5.1 Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
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#### 5.2 Special hazards arising from the substance or mixture

##### Special Fire and Explosion Hazards

None identified

##### Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

#### 5.3 Advice for fire fighters

<b>Protective Equipment</b>	Self-contained breathing apparatus is recommended for firefighters.
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<b>5.4 Additional information</b>	None
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### Section 6 Accidental Release Measures

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

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
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<b>6.2 Environmental Precautions</b>	Contain spill to prevent migration.
--------------------------------------	-------------------------------------

## Section 6 Accidental Release Measures (Continued)

### 6.3 Methods and material for containment and cleaning up

**Spill and Leak Procedures** Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

**6.4 Reference to other sections** Refer sections 8 and 13.

## Section 7 Handling and Storage

**7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.

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

To maintain efficacy, store according to the instructions in the product labeling.

## Section 8 Exposure Controls and Personal Protection

### 8.1 Control parameters

#### Exposure Limits

**US OSHA** None established

#### ACGIH

Sodium Azide 0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>); 0.11 ppm Ceiling (as Hydrazoic acid) (vapor)  
CAS # 26628-22-8

#### DFG MAK

Sodium Azide 0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)  
CAS # 26628-22-8

#### Ireland

Sodium Azide 0.1 mg/m<sup>3</sup> TWA (as NaN<sub>3</sub>); 0.3 mg/m<sup>3</sup> STEL (as NaN<sub>3</sub>); Potential for cutaneous absorption  
CAS # 26628-22-8

#### NIOSH

None established

#### Japan

None established

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

#### Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact.  
Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

#### Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.  
Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

#### Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection.

# SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	Not determined	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

**9.2 Other Information** None

## Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No data available.
<b>10.2 Chemical Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>10.3 Possibility of hazardous reactions</b>	No data available.
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials.
<b>10.5 Incompatible materials</b>	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 may result in the build up of shock sensitive compounds.
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Data for Hazardous Ingredients

Sodium Azide  
CAS # 26628-22-8

Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg

#### Primary Routes of Exposure

The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

#### Carcinogenicity

This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

#### Potential Effects of Acute Exposure

Although its concentration in this product is low, sodium azide is highly toxic by ingestion and skin absorption. Overexposure may result in irritation of skin, eyes and mucous membranes, lowered blood pressure and irregular heartbeat. Sodium azide is a chemical asphyxiant and may effect the cardiovascular, respiratory and central nervous systems. Symptoms may include irritation, severe, pounding headaches, dizziness, weakness, nausea, vomiting, low blood pressure, rapid heartbeat, convulsions, collapse and death.

#### Potential Effects of Chronic Exposure

Prolonged or repeated exposure to sodium azide may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.

#### Symptoms of Overexposure

Symptoms of overexposure may include: eye, skin, nose and throat irritation; headache, weakness, dizziness, confusion, nausea and vomiting. Severe cases may exhibit difficulty in breathing, irregular heartbeat, reddish colored skin, unconsciousness, convulsions, coma and death. Symptoms may be delayed for several hours after exposure.

#### Conditions Aggravated by Exposure

None identified

#### Other Information

Reproductive effects have been reported in animal studies.

## Section 12 Ecological Information

### 12.1 Ecotoxicity

#### Fresh Water Species

Sodium Azide  
CAS # 26628-22-8

96 h LC50 *Oncorhynchus mykiss*: 0.8 mg/L; 96 h LC50 *Lepomis macrochirus*: 0.7 mg/L; 96 h LC50 *Pimephales promelas*: 5.46 mg/L [flow-through]

#### Microtox

No information available.

#### Water Flea

No information available.

#### Fresh Water Algae

No information available.

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation No information available.

12.4 Mobility in soil No information available.

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## Section 12 Ecological Information (Continued)

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### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Other Adverse Effects

No information available.

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## Section 13 Disposal Considerations

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### 13.1 Waste treatment methods

#### Product Waste Disposal

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.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

### 13.2 Additional information

None

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## Section 14 Transport Information

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Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

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## Section 15 Regulatory Information

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

#### US Federal and State Regulations

##### SARA 313

Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

##### CERCLA RG's, 40 CFR 302.4

Sodium Azide is listed.

##### California Proposition 65

No ingredients listed.

##### Massachusetts MSL

Sodium Azide is listed.

##### New Jersey Dept. of Health RTK List

Sodium Azide is listed.

##### Pennsylvania RTK

Sodium Azide is listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

##### **PIN**

Not applicable

#### **Ingredients on Ingredient Disclosure List**

Sodium Azide

## Section 15 Regulatory Information (Continued)

### Ingredients with unknown toxicological properties

None

### 15.2 Chemical Safety Assessment Not available

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

## Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 1</b> <b>Reactivity with Water: 0</b> <b>Contact: 1</b>	<b>Code</b> 0=None 1=Slight 2=Caution 3=Severe
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### Revision Changes

Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

### Hazard Class, hazard statements and risk phrase description from section 3

N - Dangerous for the environment  
T+ - Very toxic  
R28 Very toxic if swallowed.  
R32 Contact with acids liberates very toxic gas.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
D1A - Poisonous and Infections Material: Division 1 - Immediate and Serious Toxic Effects: Very Toxic (Acute Dermal Toxicity)  
D1A - Poisonous and Infections Material: Division 1 - Immediate and Serious Toxic Effects: Very Toxic (Acute Inhalation Toxicity)  
D1A - Poisonous and Infections Material: Division 1 - Immediate and Serious Toxic Effects: Very Toxic (Acute Oral Toxicity)  
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
H300 - Fatal if swallowed.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

For further information, please contact your local Beckman Coulter representative.

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.



## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Wash Solution  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

**US OSHA** Not applicable

**WHMIS** Not applicable

#### 2.2 Label Elements

##### According to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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## Section 2 Hazards Identification (Continued)

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**2.3 Other Hazard** None identified

See Section 11 Toxicological Information for more detailed health information.

---

## Section 3 Composition and Information on Ingredients

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**3.2 Mixture**

**Hazardous Ingredients:** None

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## Section 4 First Aid Measures

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**4.1 Description of first aid measures**

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

**Ingestion** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

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## Section 5 Fire Fighting Measures

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**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** Use extinguishing media suitable for surrounding fire.

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

**Special Fire and Explosion Hazards**

None identified

**Hazardous Combustion Products**

No combustion products posing significant hazards are expected from this product (an aqueous solution).

**5.3 Advice for fire fighters**

**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters.

**5.4 Additional information** None



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### Section 6 Accidental Release Measures

- |            |   |  |
|------------|---|--|
| <b>6.1</b> | <b>Personal precaution, protective equipment and emergency procedures</b> |  |
|            | <b>Personal Precautions</b>   | No special precautions are necessary. Use good laboratory procedures.  |
| <b>6.2</b> | <b>Environmental Precautions</b>  | Contain spill to prevent migration.  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>               |  |
|            | <b>Spill and Leak Procedures</b>  | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. |
| <b>6.4</b> | <b>Reference to other sections</b>  | Refer sections 8 and 13.   |

### Section 7 Handling and Storage

- |            |   |  |
|------------|---|--|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | No special precautions are necessary; use good laboratory procedures.  |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> | Keep away from incompatible material (see Section 10).<br>To maintain efficacy, store according to the instructions in the product labeling. |
| <b>7.3</b> | <b>Specific end uses</b>  | No data available.   |

### Section 8 Exposure Controls and Personal Protection

- |            |                               |  |
|------------|-------------------------------|--|
| <b>8.1</b> | <b>Control parameters</b>     |  |
|            | <b>Exposure Limits</b>        |  |
|            | <b>US OSHA</b>                | None established   |
|            | <b>ACGIH</b>                  | None established   |
|            | <b>DFG MAK</b>                | None established   |
|            | <b>Ireland</b>                | None established   |
|            | <b>NIOSH</b>                  | None established   |
|            | <b>Japan</b>                  | None established   |
| <b>8.2</b> | <b>Exposure controls</b>      |  |
|            | <b>Engineering Controls</b>   | No special engineering controls are required. Use with good general ventilation.   |
|            | <b>Eye Protection</b>         | Safety glasses or chemical goggles should be worn to prevent eye contact.<br>Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.                 |
|            | <b>Skin Protection</b>        | Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.<br>Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards. |
|            | <b>Respiratory Protection</b> | Under normal conditions, the use of this product should not require respiratory protection.  |

# SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	Not determined	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

**9.2 Other Information** None

## Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	None
<b>10.2 Chemical Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>10.3 Possibility of hazardous reactions</b>	None
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Strong acids Strong bases Strong oxidizers
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Data for Hazardous Ingredients

Not applicable

**Primary Routes of Exposure** The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

**Carcinogenicity** This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

#### Potential Effects of Acute Exposure

None identified

#### Potential Effects of Chronic Exposure

None identified

**Symptoms of Overexposure** None identified

#### Conditions Aggravated by Exposure

None identified

**Other Information** None identified

## Section 12 Ecological Information

### 12.1 Ecotoxicity

**Fresh Water Species** No information available.

**Microtox** No information available.

**Water Flea** No information available.

**Fresh Water Algae** No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulation** No information available.

**12.4 Mobility in soil** No information available.

### 12.5 Results of PBT and vPvB assessment

Not applicable

**12.6 Other Adverse Effects** None

## Section 13 Disposal Considerations

### 13.1 Waste treatment methods

**Product Waste Disposal** 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.

**13.2 Additional information** None

## Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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

#### US Federal and State Regulations

**SARA 313** No ingredients listed.

**CERCLA RG's, 40 CFR 302.4** No ingredients listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** No ingredients listed.

#### **New Jersey Dept. of Health RTK List**

No ingredients listed.

**Pennsylvania RTK** No ingredients listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

None

#### **Ingredients with unknown toxicological properties**

None

### 15.2 Chemical Safety Assessment Not available

*Some hazardous ingredients listed in Section 15 are below OSHA's and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

## Section 16 Other Information

### **Beckman Coulter Safety Rating**

**Flammability: 0**  
**Health: 0**  
**Reactivity with Water: 0**  
**Contact: 1**

Code  
0=None  
1=Slight  
2=Caution  
3=Severe

### **Revision Changes**

Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

For further information, please contact your local Beckman Coulter representative.

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## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Substrate  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless to pale yellow; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

**US OSHA** Not applicable

**WHMIS** Not applicable

#### 2.2 Label Elements

##### According to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

##### According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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## Section 2 Hazards Identification (Continued)

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**2.3 Other Hazard** None identified

See Section 11 Toxicological Information for more detailed health information.

---

## Section 3 Composition and Information on Ingredients

---

### 3.2 Mixture

**Hazardous Ingredients:** None

---

## Section 4 First Aid Measures

---

### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

**Ingestion** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

---

## Section 5 Fire Fighting Measures

---

**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** Use extinguishing media suitable for surrounding fire.

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

#### Special Fire and Explosion Hazards

None identified

#### Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

### 5.3 Advice for fire fighters

**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters.

**5.4 Additional information** None

## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 6 Accidental Release Measures

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

**Personal Precautions** No special precautions are necessary. Use good laboratory procedures.

#### 6.2 Environmental Precautions

Contain spill to prevent migration.

#### 6.3 Methods and material for containment and cleaning up

**Spill and Leak Procedures** Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

#### 6.4 Reference to other sections

Refer sections 8 and 13.

### Section 7 Handling and Storage

#### 7.1 Precautions for safe handling

No special precautions are necessary; use good laboratory procedures.

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

Keep away from incompatible material (see Section 10).  
To maintain efficacy, store according to the instructions in the product labeling.

#### 7.3 Specific end uses

No data available.

### Section 8 Exposure Controls and Personal Protection

#### 8.1 Control parameters

##### Exposure Limits

**US OSHA** None established

**ACGIH** None established

**DFG MAK** None established

**Ireland** None established

**NIOSH** None established

**Japan** None established

#### 8.2 Exposure controls

**Engineering Controls** No special engineering controls are required. Use with good general ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye contact.  
Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

**Skin Protection** Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.  
Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

**Respiratory Protection** Under normal conditions, the use of this product should not require respiratory protection.

# SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless to pale yellow	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	≈ 3.3 - 3.8	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not applicable
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined	<b>Viscosity</b>	Not determined
<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Not applicable		

**9.2 Other Information** None

## Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	None
<b>10.2 Chemical Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>10.3 Possibility of hazardous reactions</b>	None
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Strong acids Strong bases Strong oxidizers
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).



## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Data for Hazardous Ingredients

Not applicable

**Primary Routes of Exposure** The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

**Carcinogenicity** This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

#### Potential Effects of Acute Exposure

None identified

#### Potential Effects of Chronic Exposure

None identified

**Symptoms of Overexposure** None identified

#### Conditions Aggravated by Exposure

None identified

**Other Information** None identified

## Section 12 Ecological Information

### 12.1 Ecotoxicity

**Fresh Water Species** No information available.

**Microtox** No information available.

**Water Flea** No information available.

**Fresh Water Algae** No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulation** No information available.

**12.4 Mobility in soil** No information available.

### 12.5 Results of PBT and vPvB assessment

Not applicable

**12.6 Other Adverse Effects** None

## Section 13 Disposal Considerations

### 13.1 Waste treatment methods

**Product Waste Disposal** 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.

**13.2 Additional information** None

## Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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

#### US Federal and State Regulations

**SARA 313** No ingredients listed.  
**CERCLA RG's, 40 CFR 302.4** No ingredients listed.  
**California Proposition 65** No ingredients listed.  
**Massachusetts MSL** Hydrogen Peroxide is listed.  
**New Jersey Dept. of Health RTK List**

Hydrogen Peroxide is listed.

**Pennsylvania RTK** Hydrogen Peroxide is listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

Hydrogen Peroxide

#### **Ingredients with unknown toxicological properties**

None

### 15.2 Chemical Safety Assessment Not available

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

## Section 16 Other Information

### **Beckman Coulter Safety Rating**

**Flammability: 0**  
**Health: 0**  
**Reactivity with Water: 0**  
**Contact: 1**

Code  
0=None  
1=Slight  
2=Caution  
3=Severe

### **Revision Changes**

Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

For further information, please contact your local Beckman Coulter representative.

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## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

#### 1.1 Product Identifier

**Product Name** Stop Solution H<sub>2</sub>SO<sub>4</sub>  
**Part Number** Component of P/N IM2042

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

**Product Use** For Research Use Only. Not for Use in Diagnostic Procedure.

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

##### Manufacturer

Distributed by Beckman Coulter, Inc. for  
IMMUNOTECH (A Beckman Coulter  
Company)  
130, av.de Lattre de Tassigny - BP 177  
13276 Marseille Cedex 09 - France Tél.  
(33) 4 91 17 27 00

**e-mail address** SDSNT@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Colorless; Clear; Liquid; Odorless

##### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Xi;R36/38

**US OSHA** Hazardous

**WHMIS** D1A; E

**Potential Health Effects Summary** Exposure may cause irritation or burns to respiratory tract, skin, and eyes.  
Corrosive effects may be delayed.

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## Section 2 Hazards Identification (Continued)

### 2.2 Label Elements

According to EC Directives (1999/45/EC and 67/548 EEC)

Irritant

Xi



### Risk and Safety Phrases

R36/38 Irritating to eyes and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 2.3 Other Hazard

None identified

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and Information on Ingredients

### 3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
Sulfuric Acid CAS # 7664-93-9 EINECS # 231-639-5 Index # 016-020-00-8	< 10	C;R35	Eye Dam. 1 Skin Corr. 1A H314; H318	Water-Reactive Carcinogen Corrosive Highly Toxic	D1A; E	

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

## Section 4 First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

#### Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

#### Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.

#### Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

See Section 11 Toxicological Information for more detailed health information.

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

No specific medical attention or treatment required.

## SAFETY DATA SHEET

Doc. ID: IM2042-75 AC  
Revised (year/month/day) 2013/05/16

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Nonflammable aqueous solution.
<b>5.1 Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	
<b>Special Fire and Explosion Hazards</b>	None identified
<b>Hazardous Combustion Products</b>	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
<b>5.3 Advice for fire fighters</b>	
<b>Protective Equipment</b>	Self-contained breathing apparatus is recommended for firefighters.
<b>5.4 Additional information</b>	None

### Section 6 Accidental Release Measures

<b>6.1 Personal precaution, protective equipment and emergency procedures</b>	
<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>6.2 Environmental Precautions</b>	Contain spill to prevent migration.
<b>6.3 Methods and material for containment and cleaning up</b>	
<b>Spill and Leak Procedures</b>	Absorb with acid spill kit and dispose according to local regulations.
<b>6.4 Reference to other sections</b>	Refer sections 8 and 13.

### Section 7 Handling and Storage

<b>7.1 Precautions for safe handling</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.
<b>7.3 Specific end uses</b>	No data available.

### Section 8 Exposure Controls and Personal Protection

<b>8.1 Control parameters</b>	
<b>Exposure Limits</b>	
<b>US OSHA</b>	
Sulfuric Acid CAS # 7664-93-9	1 mg/m <sup>3</sup> TWA
<b>ACGIH</b>	
Sulfuric Acid CAS # 7664-93-9	0.2 mg/m <sup>3</sup> TWA (thoracic fraction)

## SAFETY DATA SHEET

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### Section 8 Exposure Controls and Personal Protection (Continued)

#### DFG MAK

Sulfuric Acid  
CAS # 7664-93-9

0.1 mg/m<sup>3</sup> Peak (inhalable fraction); 0.1 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

#### Ireland

Sulfuric Acid  
CAS # 7664-93-9

1 mg/m<sup>3</sup> TWA

#### NIOSH

Sulfuric Acid  
CAS # 7664-93-9

15 mg/m<sup>3</sup> IDLH; 1 mg/m<sup>3</sup> TWA

#### Japan

None established

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

#### Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

#### Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

#### Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	≈ 1	<b>Coefficient of Water/Oil Distribution</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Autoignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined

## SAFETY DATA SHEET

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### Section 9 Physical and Chemical Properties (Continued)

<b>Flammable Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not determined
<b>Odor Threshold</b>	Sulfuric Acid no geometric mean air odor threshold		
<b>9.2 Other Information</b>	None		

### Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No data available.
<b>10.2 Chemical Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>10.3 Possibility of hazardous reactions</b>	No data available.
<b>10.4 Conditions to Avoid</b>	Keep away from incompatible material.
<b>10.5 Incompatible materials</b>	Strong oxidizers Strong bases
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

### Section 11 Toxicological Information

<b>11.1 Information on toxicological effects</b>	
<b>Toxicity Data for Hazardous Ingredients</b>	
Sulfuric Acid CAS # 7664-93-9	Inhalation LC50 Mouse 320 mg/m <sup>3</sup> 2 h; Inhalation LC50 Rat 510 mg/m <sup>3</sup> 2 h; Inhalation LC50 Rat 347 ppm 1 h; Oral LD50 Rat 2140 mg/kg
<b>Primary Routes of Exposure</b>	The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.
<b>Carcinogenicity</b>	Although sulfuric acid is not listed as a carcinogen, strong inorganic mists containing sulfuric acid is listed as "Known Human Carcinogen" by the National Toxicological Program, "Human Sufficient Evidence, Group 1" by the International Agency for Research on Cancer and "A2 - Suspected Human Carcinogen" by the American Conference of Governmental Industrial Hygienists.
<b>Potential Effects of Acute Exposure</b>	Inhalation of dilute acidic mists may cause respiratory tract irritation or burns to mucous membranes resulting in coughing, choking and difficulty in breathing. Results of skin contact may range from irritation and inflammation to burns with blistering. Eye contact may cause severe irritation with painful, watery eyes or burns with possible blindness. Ingestion may cause irritation or burns to the mouth and throat resulting in pain, difficulty in speaking and swallowing, intense thirst, nausea and vomiting. Although its concentration in the product is low, sulfuric acid is highly toxic by inhalation.

## Section 11 Toxicological Information (Continued)

### Potential Effects of Chronic Exposure

Depending upon concentration and duration of exposure, effects may be similar to those described for acute exposure. Repeated or prolonged contact with dilute acid may result in dermatitis and conjunctivitis with inflamed skin and eyes.

**Symptoms of Overexposure** Symptoms of overexposure may include: redness, burning and watering of the eyes; dry, red, cracked skin; coughing and difficult breathing; nausea and vomiting.

### Conditions Aggravated by Exposure

Individuals with skin, eye, or respiratory tract disorders may find these conditions aggravated by exposure to this product.

**Other Information** Reproductive effects have been reported in animal studies.

## Section 12 Ecological Information

### 12.1 Ecotoxicity

#### Fresh Water Species

Sulfuric Acid  
CAS # 7664-93-9

96 h LC50 Brachydanio rerio: >500 mg/L [static]

#### Microtox

No information available.

#### Water Flea

Sulfuric Acid  
CAS # 7664-93-9

24 h EC50 Daphnia magna: 29 mg/L

#### Fresh Water Algae

No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulation** No information available.

**12.4 Mobility in soil** No information available.

### 12.5 Results of PBT and vPvB assessment

Not applicable

**12.6 Other Adverse Effects** No information available.

## Section 13 Disposal Considerations

### 13.1 Waste treatment methods

#### Product Waste Disposal

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.

**13.2 Additional information** None

## Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>14.1 UN/ID Number</b>	2796	2796	2796	2796	2796



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## Section 14 Transport Information (Continued)

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>14.2 Shipping Name</b>	Sulfuric acid solution				
<b>14.3 Hazard Class</b>	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
<b>Subsidiary Risk</b>	None	None	None	None	None
<b>Classification Code</b>	Not applicable	Not applicable	Not applicable	C1	Not applicable
<b>14.4 Packing Group</b>	II	II	II	II	II
<b>Special Provisions</b>	None	None	Not applicable	Not applicable	Not applicable
<b>Additional information</b>					
<b>IATA ERG Code</b>	8L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
<b>NAERG Code</b>	Not applicable	Not applicable	157	Not applicable	157
<b>14.5 Environmental Hazard</b>					
<b>Marine Pollutant</b>	Not applicable	No	Not applicable	Not applicable	Not applicable
<b>14.6 Special Precautions for users</b>	None				

## Section 15 Regulatory Information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b><u>US Federal and State Regulations</u></b>	
<b>SARA 313</b>	Sulfuric Acid is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration
<b>CERCLA RG's, 40 CFR 302.4</b>	Sulfuric Acid is listed.
<b>California Proposition 65</b>	Sulfuric Acid has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning: <b>WARNING:</b> This product contains a chemical known to the State of California to cause cancer.
<b>Massachusetts MSL</b>	Sulfuric Acid is listed.
<b>New Jersey Dept. of Health RTK List</b>	Sulfuric Acid is listed.
<b>Pennsylvania RTK</b>	Sulfuric Acid is listed.

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### Section 15 Regulatory Information (Continued)

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**Water Hazard Class (Germany)** WGK 2, water endangering

**REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### Canada

##### **WHMIS Classification:**

E - Corrosive Material

D1A - Poisonous and Infections Material: Division 1 - Immediate and Serious

Toxic Effects: Very Toxic (Acute Inhalation Toxicity)

##### **PIN**

2796

##### **Ingredients on Ingredient Disclosure List**

Sulfuric Acid

##### **Ingredients with unknown toxicological properties**

None

#### **15.2 Chemical Safety Assessment** Not available

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

### Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 2</b> <b>Reactivity with Water: 0</b> <b>Contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision Changes** Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

#### **Hazard Class, hazard statements and risk phrase description from section 3**

C - Corrosive

R35 Causes severe burns.

D1A - Poisonous and Infections Material: Division 1 - Immediate and Serious

Toxic Effects: Very Toxic (Acute Inhalation Toxicity)

E - Corrosive Material

E - TDG Class 8 - corrosive substance

Eye Dam. 1 - Eye Damage Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

For further information, please contact your local Beckman Coulter representative.

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