



## Kit MSDS Cover Sheet

Doc. ID: OAX04515-75: Rev. AA  
 Issued (year/month/day) 2009/11/13

### Product Information

<b>Product Name</b>	AmpliGrid Single Cell One-Step RT-PCR System
<b>Part Number</b>	OAX04515
<b>Additional Product Information</b>	For Research Use Only. See product literature for details.

### Components

Description
Single Cell RT Enzyme Mix 2x Single Cell RT Reaction Buffer 5x Single Cell RT Enhancer Nuclease Free Water RNase Inhibitor DNase I Reaction Buffer

### Transport Information

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




# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	Single Cell RT Enzyme Mix
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: \LinkDoc{472050}, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<b>Colorless; Clear; Liquid; Odorless</b> <b>Negligible fire hazard when exposed to flame or heat.</b> <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 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.
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### Section 4 First Aid Measures (Continued)

<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. 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.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Negligible fire hazard when exposed to flame or heat.
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	Combustion products may include oxides of carbon and unidentified organic compounds.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established

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

<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Transparency</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	Not available
<b>Freezing Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Flash Point</b>	400°C (752°F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not applicable
<b>Flammable Limits</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	≈1 @20°C
<b>Solubility</b>	
<b>Water</b>	Miscible
<b>Organic</b>	Not available
<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Autoignition Temp.</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Percent Volatiles</b>	Not available

### Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

### Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	No specific symptoms identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

### Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available.

## Section 13 Disposal Considerations

### 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.

## 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

### 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 Labeling Classification

Preparation not classified.

### 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

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 (Section V): 1**  
**Health (Section XI): 1**  
**Reactivity with Water (Section X): 0**  
**Contact (Section VIII): 1**

Code  
0=none  
1=slight  
2=caution  
3=severe

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

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Printed in U.S.A.




# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	2x Single Cell RT Reaction Buffer
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: \LinkDoc{472050}, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<b>Colorless; Clear; Liquid; Odorless</b> <b>Negligible fire hazard when exposed to flame or heat.</b> <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 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.
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### Section 4 First Aid Measures (Continued)

<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. 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.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Negligible fire hazard when exposed to flame or heat.
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	Combustion products may include oxides of carbon and unidentified organic compounds.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established

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

<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Transparency</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	Not available
<b>Freezing Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Flash Point</b>	400°C (752°F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not applicable
<b>Flammable Limits</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	≈1 @20°C
<b>Solubility</b>	
<b>Water</b>	Miscible
<b>Organic</b>	Not available
<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Autoignition Temp.</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Percent Volatiles</b>	Not available

## Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

## Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	No specific symptoms identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

## Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available

## Section 13 Disposal Considerations

### 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.

## 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

### 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 Labeling Classification

Preparation not classified.

### 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

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 (Section V): 1**  
**Health (Section XI): 1**  
**Reactivity with Water (Section X): 0**  
**Contact (Section VIII): 1**

Code  
0=none  
1=slight  
2=caution  
3=severe

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

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Printed in U.S.A.




# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	5x Single Cell RT Enhancer
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: \LinkDoc{472050}, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<b>Colorless; Clear; Liquid; Odorless</b> <b>Negligible fire hazard when exposed to flame or heat.</b> <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 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.
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### Section 4 First Aid Measures (Continued)

<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. 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.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Negligible fire hazard when exposed to flame or heat.
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	Combustion products may include oxides of carbon and unidentified organic compounds.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established

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

<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

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

### Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

### Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	No specific symptoms identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

### Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available.

### Section 13 Disposal Considerations

**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.

### 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

**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 Labeling Classification**

Preparation not classified.

**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

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 (Section V): 1**  
**Health (Section XI): 1**  
**Reactivity with Water (Section X): 0**  
**Contact (Section VIII): 1**

Code  
0=none  
1=slight  
2=caution  
3=severe

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

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Printed in U.S.A.




# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	Nuclease Free Water
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<p><b>Colorless; Clear; Liquid; Odorless</b>  <b>Nonflammable aqueous solution.</b>  <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b></p>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 First Aid Measures

<b>Inhalation</b>	Not applicable
<b>Eye Contact</b>	Not applicable

### Section 4 First Aid Measures (Continued)

<b>Skin Contact</b>	Not applicable
<b>Ingestion</b>	Not applicable

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Nonflammable aqueous solution.
<b>Extinguishing Media</b>	Not applicable
<b>Special Fire and Explosion Hazards</b>	None identified.
<b>Hazardous Combustion Products</b>	None
<b>Protective Equipment for Firefighters</b>	Not applicable

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	No special precautions are necessary. Use good laboratory procedures.
<b>Spill and Leak Procedures</b>	No special requirements.
<b>Environmental Precautions</b>	No special requirements.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	No special precautions are necessary; use good laboratory procedures.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established
<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Not applicable

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

<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Transparency</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	7
<b>Freezing Point</b>	0°C (32°F)
<b>Boiling Point</b>	100°C (212°F)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	1 @20°C
<b>Solubility</b>	
<b>Water</b>	Miscible
<b>Organic</b>	Not available
<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Autoignition Temp.</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Percent Volatiles</b>	Not applicable

## Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
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### Section 10 Stability and Reactivity (Continued)

<b>Hazardous Incompatibilities</b>	Strong acids Strong bases
<b>Hazardous Decomposition Products</b>	None
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

### Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	None identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

### Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available.

### Section 13 Disposal Considerations

<b>Waste Disposal</b>	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.
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### 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

#### US Federal and State Regulations

<b>SARA 313</b>	No ingredients listed.
<b>CERCLA RG's, 40 CFR 302.4</b>	No ingredients listed.
<b>California Proposition 65</b>	No ingredients listed.
<b>Massachusetts MSL</b>	No ingredients listed.
<b>New Jersey Dept. of Health RTK List</b>	No ingredients listed.
<b>Pennsylvania RTK</b>	No ingredients listed.

#### EU Labeling Classification

Preparation not classified.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

<b>PIN:</b>	Not applicable
<b>Ingredients on Ingredient Disclosure List:</b>	None
<b>Ingredients with unknown toxicological properties:</b>	None

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 (Section V): 0</b> <b>Health (Section XI): 0</b> <b>Reactivity with Water (Section X): 0</b> <b>Contact (Section VIII): 0</b>	Code 0=none 1=slight 2=caution 3=severe
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For further information, please contact your local Beckman Coulter representative.

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# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	RNase Inhibitor
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: \LinkDoc{472050}, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<b>Colorless; Clear; Liquid; Odorless</b> <b>Negligible fire hazard when exposed to flame or heat.</b> <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 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.
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### Section 4 First Aid Measures (Continued)

<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. 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.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Negligible fire hazard when exposed to flame or heat.
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	Combustion products may include oxides of carbon and unidentified organic compounds.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established

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

<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Transparency</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	Not available
<b>Freezing Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Flash Point</b>	400 (752°F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not applicable
<b>Flammable Limits</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	≈1 @20°C
<b>Solubility</b>	
<b>Water</b>	Miscible
<b>Organic</b>	Not available
<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Autoignition Temp.</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Percent Volatiles</b>	Not available

### Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

### Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	No specific symptoms identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

### Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available

### Section 13 Disposal Considerations

**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.

### 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

#### US Federal and State Regulations

<b>SARA 313</b>	No ingredients listed.
<b>CERCLA RG's, 40 CFR 302.4</b>	No ingredients listed.
<b>California Proposition 65</b>	No ingredients listed.
<b>Massachusetts MSL</b>	No ingredients listed.
<b>New Jersey Dept. of Health RTK List</b>	No ingredients listed.
<b>Pennsylvania RTK</b>	No ingredients listed.

#### EU Labeling Classification

Preparation not classified.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

<b>PIN:</b>	Not applicable
<b>Ingredients on Ingredient Disclosure List:</b>	None
<b>Ingredients with unknown toxicological properties:</b>	None

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 (Section V): 1**  
**Health (Section XI): 1**  
**Reactivity with Water (Section X): 0**  
**Contact (Section VIII): 1**

Code  
0=none  
1=slight  
2=caution  
3=severe

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

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Printed in U.S.A.




# MATERIAL SAFETY DATA SHEET

AmpliGrid Single Cell One-Step RT-PCR System

Doc. ID: OAX04515-75 AA

Issued (year/month/day) 2009/11/13

## Section 1 Company and Product Identification

<b>Product Name</b>	DNase I Reaction Buffer
<b>Part Number</b>	Component of P/N OAX04515
<b>Product Use</b>	For Research Use Only. See product literature for details.
<b>Manufacturer</b>	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: \LinkDoc{472050}, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

<b>Emergency Overview</b>	<b>Colorless; Clear; Liquid; Odorless</b> <b>Negligible fire hazard when exposed to flame or heat.</b> <b>Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</b>		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Potential Environmental Effects</b>	Not available		
<b>Product Hazard Classifications</b>	<b>Meets Hazardous Criteria for Preparation/Mixture</b>		
	<b>EU:</b> Not applicable	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable

## Section 3 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
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## Section 4 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.
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### Section 4 First Aid Measures (Continued)

<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. 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.

### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Negligible fire hazard when exposed to flame or heat.
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	Combustion products may include oxides of carbon and unidentified organic compounds.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

### Section 7 Handling and Storage

<b>Handling Precautions</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

### Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	None established
<b>DFG MAK:</b>	None established
<b>NIOSH</b>	None established

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

<b>Japan</b>	None established
<b>Engineering Controls</b>	No special engineering controls are necessary for normal handling of this product.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

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

### Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

### Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.
<b>Symptoms of Overexposure</b>	No specific symptoms identified.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

### Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Bioaccumulation</b>	No information available
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	No information available

### Section 13 Disposal Considerations

**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.

### 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

#### US Federal and State Regulations

<b>SARA 313</b>	No ingredients listed.
<b>CERCLA RG's, 40 CFR 302.4</b>	No ingredients listed.
<b>California Proposition 65</b>	No ingredients listed.
<b>Massachusetts MSL</b>	No ingredients listed.
<b>New Jersey Dept. of Health RTK List</b>	No ingredients listed.
<b>Pennsylvania RTK</b>	No ingredients listed.

#### EU Labeling Classification

Preparation not classified.

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

<b>PIN:</b>	Not applicable
<b>Ingredients on Ingredient Disclosure List:</b>	None
<b>Ingredients with unknown toxicological properties:</b>	None

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 (Section V): 1**  
**Health (Section XI): 1**  
**Reactivity with Water (Section X): 0**  
**Contact (Section VIII): 1**

Code  
0=none  
1=slight  
2=caution  
3=severe

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

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