



Kit SDS Cover Sheet

Doc. ID: 8547134-75: Rev. AD
Revised (year/month/day) 2010/11/26

Product Information

| | |
|---------------------|----------------------------|
| Product Name | diff A ^c T PAK™ |
| Part Number | 8547134 |
| Series Name | Coulter® |

Components

| Description |
|-------------|
| Reagent 2 |
| Reagent 1 |

Transport Information


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



SAFETY DATA SHEET

diff A^CT PAK™
 Doc. ID: 8547134-75 AD
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Section 1 Company and Product Identification

| | |
|--|--|
| Product Name | Reagent 2 |
| Part Number | Component of P/N 8547134 |
| Product Use | For In Vitro Diagnostic Use. See product literature for details. |
| Series Name | Coulter® |
| Manufacturer | Beckman Coulter, Inc. 250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633 E-mail: SDSNT@beckman.com |
| EC REP Address | Beckman Coulter Ireland Inc. Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068 |
| Distributor and Emergency Phone No. |  Refer to attached list, Document ID: 472050 , for local distributor and emergency phone numbers. |

Section 2 Hazards Identification

| | | | |
|---|--|-------------------------|------------------------------|
| Emergency Overview | Yellow; Clear; Liquid; Faint aromatic odor Nonflammable aqueous solution. May cause irritation of skin, eyes, mucous membranes and upper respiratory tract. | | |
| Physical Hazards | No physical hazards were determined from a review of available literature. | | |
| Potential Health Effects Summary | Exposure may result in irritation of skin, eyes, and mucous membranes. See Section 11 Toxicological Information for more detailed health information. | | |
| Potential Environmental Effects | Not available | | |
| Product Hazard Classifications | Meets Hazardous Criteria for Preparation/Mixture | | |
| | EU: Xi;R36 | WHMIS: Exempt | US OSHA: Hazardous |

Section 3 Composition and Information on Ingredients

| Hazardous Ingredients: | | | | Hazard Classification of Pure Ingredients | | |
|--------------------------|---------|----------|----------|---|---------|--------------------|
| Chemical Name | CAS # | EINECS # | % by wt. | EU | WHMIS | US OSHA |
| Quaternary Ammonium Salt | * | * | < 2 | Xn;R20/21/22 | D2B | Irritant |
| Isopropyl Alcohol | 67-63-0 | 2006617 | < 2 | F;R11 Xi;R36-67 | B2; D2B | Flammable Irritant |

See Section 15 Regulatory Information for additional information on hazard classifications.

See Section 16 for Risk Phrases and WHMIS Classification Description.

* The specific identity of a hazardous ingredient in this product has been withheld as a trade secret. Information concerning the hazards and other pertinent properties of this ingredient are included in this SDS.

Section 4 First Aid Measures

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|---------------------|---|
| 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. |

Section 5 Fire Fighting Measures

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|--|---|
| Flammable Properties | Nonflammable aqueous solution. |
| Extinguishing Media | Use extinguishing media suitable for surrounding fire. |
| Special Fire and Explosion Hazards | None identified. |
| Hazardous Combustion Products | No combustion products posing significant hazards are expected from this product (a dilute aqueous solution). |
| Protective Equipment for Firefighters | Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations. |

Section 6 Accidental Release Measures

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|----------------------------------|--|
| Personal Precautions | No special precautions are necessary. Use good laboratory procedures. |
| Spill and Leak Procedures | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. |
| Environmental Precautions | Contain spill to prevent migration. |

Section 7 Handling and Storage

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|---------------------------------------|--|
| Handling Precautions | No special precautions are necessary; use good laboratory procedures. |
| Recommended Storage Conditions | 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

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|-------------------------------|---|
| Exposure Limits | |
| US OSHA: | |
| Isopropyl Alcohol | 400 ppm TWA; 980 mg/m ³ TWA |
| ACGIH: | |
| Isopropyl Alcohol | 400 ppm STEL; 200 ppm TWA |
| DFG MAK: | |
| Isopropyl Alcohol | 200 ppm MAK; 500 mg/m ³ MAK; 400 ppm Peak; 1000 mg/m ³ Peak |
| NIOSH | |
| Isopropyl Alcohol | 2000 ppm IDLH (10% LEL); 400 ppm TWA; 980 mg/m ³ TWA; 500 ppm STEL; 1225 mg/m ³ STEL |
| Japan | None established |
| Engineering Controls | No special engineering controls are required. Use with good general ventilation. |
| Respiratory Protection | Under normal conditions, the use of this product should not require respiratory protection. |
| 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. |

Section 9 Physical and Chemical Properties

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|-----------------------|--|
| Physical State | Liquid |
| Color | Yellow |
| Transparency | Clear |
| Odor | Faint aromatic odor |
| Odor Threshold | Isopropyl Alcohol 43 ppm geometric mean air odor threshold = (detectable); 19 ppm geometric mean air odor threshold = (recognizable) |
| pH | 10.9 |
| Freezing Point | Not available |

Section 9 Physical and Chemical Properties (Continued)

| | |
|--|----------------|
| Boiling Point | Not available |
| Flash Point | Not applicable |
| Evaporation Rate | Not available |
| Flammability (Solid, Gas) | Not applicable |
| Flammable Limits | Not available |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Specific Gravity | 1.04 @20°C |
| Solubility | |
| Water | Miscible |
| Organic | Not available |
| Coefficient of Water/Oil Distribution | Not available |
| Autoignition Temp. | Not applicable |
| Decomposition Temperature | Not available |
| Percent Volatiles | Not available |

Section 10 Stability and Reactivity

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|---|---|
| Stability | Stable under normal temperatures and pressures. |
| Hazardous Incompatibilities | Strong acids Strong bases Strong oxidizers |
| Hazardous Decomposition Products | No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution). |
| Conditions to Avoid | Avoid contact with incompatible materials. |

Section 11 Toxicological Information

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|--|--|
| Toxicity Data for Hazardous Ingredients | |
| Isopropyl Alcohol | Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg |
| Primary Routes of Exposure | Eye contact, ingestion, inhalation, and skin contact. |

Section 11 Toxicological Information (Continued)

| | |
|--|---|
| Potential Effects of Acute Exposure | May cause irritation of the eyes, skin, mucous membrane, and upper respiratory tract. |
| Potential Effects of Chronic Exposure | Effects are similar to those for acute exposure. |
| Symptoms of Overexposure | Symptoms may include redness and itching or burning of the skin and eyes, and irritation or burning sensation of the upper respiratory tract with coughing and difficulty in breathing. |
| Carcinogenicity | No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I. |
| Other Effects | None identified. |
| Conditions Aggravated by Exposure | Individuals with skin, eye, or respiratory tract disorders may find these conditions aggravated by exposure to this product. |

Section 12 Ecological Information

| | |
|------------------------------|--|
| Ecotoxicity | |
| Isopropyl Alcohol | 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L |
| Biodegradability | No information available. |
| Bioaccumulation | No information available. |
| Mobility | No information available. |
| Other Adverse Effects | No information available. |

Section 13 Disposal Considerations

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|-----------------------|---|
| 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 | Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of SARA. Potassium Cyanide is subject to reporting requirements of Section 313, Title III of SARA. |
|-----------------|--|

Section 15 Regulatory Information (Continued)

**CERCLA RG's,
40 CFR 302.4** Potassium Cyanide is listed.
Sodium Hydroxide is listed.


California Proposition 65 No ingredients listed.

Massachusetts MSL Isopropyl Alcohol is listed.
Potassium Cyanide is listed.
Sodium Hydroxide is listed.

**New Jersey Dept. of
Health RTK List** Isopropyl Alcohol is listed.
Potassium Cyanide is listed.
Sodium Hydroxide is listed.

Pennsylvania RTK Isopropyl Alcohol is listed.
Potassium Cyanide is listed.
Sodium Hydroxide is listed.

EU Labeling Classification

| Classification | Risk and Safety Phrases |
|---|--|
| Xi  Irritant | R36 Irritating to eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN: Not applicable

**Ingredients on Ingredient
Disclosure List:** Isopropyl Alcohol
Citric Acid
Sodium Hydroxide

**Ingredients with unknown
toxicological properties:** Product is exempt

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 (Section V): 0 Health (Section XI): 2 Reactivity with Water (Section X): 0 Contact (Section VIII): 2 | Code 0=none 1=slight 2=caution 3=severe |
| Revision Changes | Reformatted Sections 2, 3, 5, 8, 9, 12, 15, and 16 per ANSI Z400.1-2004 Standard. Revised manufacturer's address in Section 1 | |
| Risk Phrases and WHMIS Classification Description From Section 3 | R11 Highly flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness. B2 - Flammable and Combustible Material: Flammable Liquid D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation) | |
| This SDS complies with EC Regulation 1907/2006 (REACH) | | |
| For further information, please contact your local Beckman Coulter representative. | | |

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Printed in U.S.A.



SAFETY DATA SHEET

diff A^CT PAK™
 Doc. ID: 8547134-75 AD
 Revised (year/month/day) 2010/11/26

Section 1 Company and Product Identification

| | |
|--|--|
| Product Name | Reagent 1 |
| Part Number | Component of P/N 8547134 |
| Product Use | For In Vitro Diagnostic Use. See product literature for details. |
| Series Name | Coulter® |
| Manufacturer | Beckman Coulter, Inc. 250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633 E-mail: SDSNT@beckman.com |
| EC REP Address | Beckman Coulter Ireland Inc. Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068 |
| Distributor and Emergency Phone No. |  Refer to attached list, Document ID: 472050 , for local distributor and emergency phone numbers. |

Section 2 Hazards Identification

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

Section 3 Composition and Information on Ingredients

| | |
|-------------------------------|------|
| Hazardous Ingredients: | None |
|-------------------------------|------|

Section 4 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. |

Section 5 Fire Fighting Measures

| | |
|--|---|
| Flammable Properties | Nonflammable aqueous solution. |
| Extinguishing Media | Use extinguishing media suitable for surrounding fire. |
| Special Fire and Explosion Hazards | None identified. |
| Hazardous Combustion Products | No combustion products posing significant hazards are expected from this product (a dilute aqueous solution). |
| Protective Equipment for Firefighters | Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations. |

Section 6 Accidental Release Measures

| | |
|----------------------------------|--|
| Personal Precautions | No special precautions are necessary. Use good laboratory procedures. |
| Spill and Leak Procedures | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. |
| Environmental Precautions | Contain spill to prevent migration. |

Section 7 Handling and Storage

| | |
|---------------------------------------|--|
| Handling Precautions | No special precautions are necessary; use good laboratory procedures. |
| Recommended Storage Conditions | 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

| | |
|------------------------|------------------|
| Exposure Limits | |
| US OSHA: | None established |
| ACGIH: | None established |
| DFG MAK: | None established |

Section 8 Exposure Controls and Personal Protection (Continued)

| | |
|-------------------------------|---|
| NIOSH | None established |
| Japan | None established |
| Engineering Controls | No special engineering controls are required. Use with good general ventilation. |
| Respiratory Protection | Under normal conditions, the use of this product should not require respiratory protection. |
| 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. |

Section 9 Physical and Chemical Properties

| | |
|--|----------------|
| Physical State | Liquid |
| Color | Colorless |
| Transparency | Clear |
| Odor | Odorless |
| Odor Threshold | Not applicable |
| pH | 7.0 |
| Freezing Point | Not available |
| Boiling Point | Not available |
| Flash Point | Not applicable |
| Evaporation Rate | Not available |
| Flammability (Solid, Gas) | Not applicable |
| Flammable Limits | Not available |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Specific Gravity | 1.02 @20°C |
| Solubility | |
| Water | Miscible |
| Organic | Not available |
| Coefficient of Water/Oil Distribution | Not available |

Section 9 Physical and Chemical Properties (Continued)

Autoignition Temp. Not applicable

Decomposition Temperature Not available

Percent Volatiles Not available

Section 10 Stability and Reactivity

Stability Stable under normal temperatures and pressures.

Hazardous Incompatibilities Strong acids
Strong bases
Strong oxidizers

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

Conditions to Avoid Avoid contact with incompatible materials.

Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients Not applicable

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Potential Effects of Acute Exposure None identified.

Potential Effects of Chronic Exposure None identified.

Symptoms of Overexposure No specific symptoms identified.

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.

Other Effects None identified.

Conditions Aggravated by Exposure None identified.

Section 12 Ecological Information

Ecotoxicity No information available.

Biodegradability No information available.

Bioaccumulation No information available.

Section 12 Ecological Information (Continued)

Mobility No information available.

Other Adverse Effects 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 Formaldehyde is subject to reporting requirements of Section 313, Title III of SARA.

**CERCLA RG's,
40 CFR 302.4** Formaldehyde is listed.
Sodium Hydroxide is listed.

California Proposition 65 Formaldehyde 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:
WARNING: This product contains a chemical known to the State of California to cause cancer.

Massachusetts MSL Formaldehyde is listed.
Sodium Hydroxide is listed.
Sodium Sulfate is listed.

**New Jersey Dept. of
Health RTK List** Formaldehyde is listed.
Propylene Glycol is listed.
Sodium Hydroxide is listed.

Pennsylvania RTK Formaldehyde is listed.
Propylene Glycol is listed.
Sodium Hydroxide is listed.
Sodium Sulfate is listed.

EU Labeling Classification

Preparation not classified.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN: Not applicable

Section 15 Regulatory Information (Continued)

Ingredients on Ingredient Disclosure List: Formaldehyde
Propylene Glycol
Sodium Hydroxide

Ingredients with unknown toxicological properties: Product is exempt

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 (Section V): 0 Health (Section XI): 1 Reactivity with Water (Section X): 0 Contact (Section VIII): 1 | Code 0=none 1=slight 2=caution 3=severe |
|--------------------------------------|--|--|

| | |
|-------------------------|--|
| Revision Changes | Reformatted Sections 2, 3, 5, 8, 9, 12, 15, and 16 per ANSI Z400.1-2004 Standard. Revised manufacturer's address in Section 1 |
|-------------------------|--|

This SDS complies with EC Regulation 1907/2006 (REACH)

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

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