



Kit MSDS

Doc. ID: 8547134-75: Rev. AC

Product Information

Product Name	diff A ^{Co} T PAK™	Doc. ID 8547134-75 AC Issued (year/month/day) Revised (year/month/day) 2007/05/11
Part Number	8547134	
Series Name:	Coulter®	
Additional Product Information:		

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.



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Reagent 2	<i>diff A^{co}T PAKTM</i> Doc. ID 8547134-75 AC Issued (year/month/day) Revised (year/month/day) 2007/05/11
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. 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. ECREP Address: Beckman Coulter Ireland, Inc. Mervue Business Park, Mervue, Galway, Ireland 353 91 774068	
Distributor and Emergency Phone No.		Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Composition and Information on Ingredients

Hazardous Ingredients:			Meets Hazardous Criteria:		
Chemical Name	CAS #	% by wt.	<u>EU</u>	<u>US OSHA</u>	<u>WHMIS</u>
Isopropyl Alcohol	67-63-0	<2	Xi;R36-67	Yes	Exempt
Quaternary Ammonium Salt	*	<2	F;R11 Xn;R20/21/22	Yes	Exempt

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

Section 3 Hazards Identification

Emergency Overview	<p style="text-align: center;"> Yellow; Clear; Liquid; Faint aromatic odor Nonflammable aqueous solution. May cause irritation of skin, eyes, mucous membranes and upper respiratory tract. </p>		
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.		
Product Hazard Classifications	EU: Xi;R36	WHMIS: Exempt	US OSHA: Hazardous

Section 3 Hazards Identification (Continued)

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
--------------------------------------	--	--

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

Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
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:**Isopropyl Alcohol 400 ppm TWA; 980 mg/m³ TWA**ACGIH:**

Isopropyl Alcohol 400 ppm STEL; 200 ppm TWA

DFG MAK:Isopropyl Alcohol 200 ppm MAK; 500 mg/m³ MAK; 400 ppm Peak; 1000 mg/m³ Peak**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.

Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

Section 9 Physical and Chemical Properties**Physical State**

Liquid

Color

Yellow

Transparency

Clear

Odor

Faint aromatic odor

Odor Threshold

Isopropyl Alcohol geometric mean air odor threshold = 43 ppm (detectable); 19 ppm (recognizable)

pH

10.9

Boiling Point

Not available

Melting Point

Not available

Specific Gravity

1.04 @20°C

Vapor Pressure

Not available

Vapor Density

Not available

Evaporation Rate

Not available

Solubility**Water**

Miscible

Organic

Not available

Section 10 Stability and Reactivity**Stability**

Stable under normal temperatures and pressures.

Hazardous IncompatibilitiesStrong acids
Strong bases
Strong oxidizers

Section 10 Stability and Reactivity (Continued)

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 Isopropyl Alcohol Quaternary Ammonium Salt	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat: 4396 mg/kg; Dermal LD50 Rat: 12800 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg Oral LD50 Rat: 5000 mg/kg; Dermal LD50 Rat: 2000 mg/kg
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
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: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
Biodegradability	No information available.
Mobility	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	Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of SARA.
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

Xi



Irritant

Risk and Safety Phrases

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 MSDS requirements.

PIN: Not applicable

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

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

Section 16 Other Information

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.

Printed in U.S.A.



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Reagent 1	<i>diff A^{co}T PAKTM</i> Doc. ID 8547134-75 AC Issued (year/month/day) Revised (year/month/day) 2007/05/11
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. 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. ECREP Address: Beckman Coulter Ireland, Inc. Mervue Business Park, Mervue, Galway, Ireland 353 91 774068	
Distributor and Emergency Phone No.		Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Composition and Information on Ingredients

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

Section 3 Hazards Identification

Emergency Overview	<p style="text-align: center;">Colorless; Clear; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials.</p>		
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.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Exempt	US OSHA: Not applicable
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	

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.
-------------------	---

Section 4 First Aid Measures (Continued)

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

Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
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
Engineering Controls	No special engineering controls are required. Use with good general ventilation.

Section 8 Exposure Controls and Personal Protection (Continued)

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.
Skin Protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

Section 9 Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Transparency	Clear
Odor	Odorless
Odor Threshold	Not applicable
pH	7.0
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	1.02 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Solubility	
Water	Miscible
Organic	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.

Section 11 Toxicological Information (Continued)

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

Section 15 Regulatory Information (Continued)**EU Labeling Classification**

Preparation not classified.

Canada

This product is exempt from WHMIS label and MSDS requirements.

PIN: Not applicable**Ingredients on Ingredient Disclosure List:** Formaldehyde
Propylene Glycol
Sodium Hydroxide**Ingredients with unknown toxicological properties:** Product is exempt**Section 16 Other Information**

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.

Printed in U.S.A.