

Doc. ID: 8547134-75: Rev. AF Revised (year/month/day) 2015/04/01

### **Product Information**

Product Name diff Ac°T PAK™

Part Number 8547134

Series Name Coulter®

### Additional Product Information

For In Vitro Diagnostic Use. See product literature for details.

### 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 Doc. ID: 8547134-75 Rev. AF Revised (year/month/day) 2015/04/01

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

1.1	Product Identifier			
	Product Name	Reagent 2		
	Part Number	Component of P/N 8547134		
	Series Name	Coulter®		
1.2	Relevant identified uses of t	he substance or mixture and ι	uses advised against	
	Product Use	For In Vitro Diagnostic Use. See	e product literature for details.	
1.3	Details of the supplier of the	e safety data sheet		
		Manufacturer	EC REP Address	
		Beckman Coulter, Inc. 250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633	Beckman Coulter Eurocenter S.A. 22, rue Juste-Oliver, Case Postale 1044, CH-1260 Nyon 1, Switzerland. Telephone +41 (0)22 365 36 11 Monday through Friday, 9:00 am to 7:00pm)	
	e-mail address	SDSNT@beckman.com		
1.4	Emergency telephone numb	ber		
	Telephone number (24H)	Chemtrec Emergency Tel No. L 703-527-3887	J.S.A. 800-424-9300, International (001)	
	Distributor and Emergency	hone No.		
		Refer to attached list, Document phone numbers.	ID: 472050, for local distributor and emergency	
	S	ection 2 Hazards Identi	fication	
2.1	Classification of substance o	r mixture		
	Product Description	Mixture		
		For full text of R- phrases: see S	Section 16.	
		Yellow; Clear; Liquid; Faint arom	atic odor	
	Classification according to E	, , , , , , , , , , , , , , , , , , ,		
		Not classified as hazardous per		
	Classification according to E	C Directives 1999/45/EC and 6 Xi;R36	7/548/EEC	
	Classification according to U	S-OSHA (HCS 29 CFR 1910.12	00) and UN GHS	
		Skin Irritation Category 3		
		Aquatic Hazard Acute, Category	3	



### Section 2 Hazards Identification (Continued)

2.2 Label Elements	According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS
	Hazardous Ingredients
	Tetradecyltrimethylammonium bromide
	Dodecyltrimethylammonium chloride
	Pictogram
	None
	Signal Word WARNING
	Hazard Statements
	H316 Causes mild skin irritation.
	H402 Harmful to aquatic life.
	Precautionary Statements
	P273 Avoid release to the environment.
	P332+P313 If skin irritation occurs: Get medical advice/attention.
	P501 Dispose of contents/container in accordance with local/national regulations
	Product label will display most significant precautionary statements.1.4% of product contains ingredients of unknown hazards to the aquatic environment.
2.3 Other hazards	Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

# Section 3 Composition and Information on Ingredients

3.2 Mixtures					
Hazardous Ingredients:		Haza	Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Dodecyltrimethylammonium chloride CAS # 112-00-5 EINECS # 203-927-0 Index # Not available	1 - 5	Xn;R20/21/22	Aquatic Acute 1 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 H315; H319; H335; H400	Aquatic Acute 1 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 H315; H319; H335; H400	
Isopropyl Alcohol CAS # 67-63-0 EINECS # 200-661-7 Index # 603-117-00-0	< 3	F;R11 Xi;R36-67	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3 H225; H319; H336	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3 H225; H319; H336	3, 8
Tetradecyltrimethylammonium bromide CAS # 1119-97-7 EINECS # 214-291-9 Index # Not available	< 1	C;R34	Aquatic Acute 1 Eye Dam. 1 Skin Corr. 1C H314; H318; H400	Aquatic Acute 1 Eye Dam. 1 Skin Corr. 1C H314; H318; H400	



# Section 3 Composition and Information on Ingredients (Continued)

3 - Health hazard

8 - Present at concentration below the cut-off limits.

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

	S	ection 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	d effects, both acute and delayed	
		Causes mild skin irritation. See Section 11 Toxicological Information for more detailed health information.	
4.3	Indication of any immediate m	edical attention and special treatment needed	
		No further relevant information available.	
	Sec	tion 5 Fire Fighting Measures	
	Flammable Properties	Nonflammable aqueous solution.	
5.1	Extinguishing Media	In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.	
5.2	Special hazards arising from t	he substance or mixture	
	Special Fire and Explosion Ha	zards	
		No special hazards determined.	
	Hazardous Combustion Produ	cts	
		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 in all chemical fire situations.	
5.4	Additional information	No further relevant information available.	



### **Section 6 Accidental Release Measures**

6.1 Personal precautions, protective equipment and e		tive equipment and emergency procedures
	Personal Precautions	Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and eye/face protection.
6.2	Environmental Precautions	Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations
6.3	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.
	Se	ection 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, in	ncluding any incompatibilities
		Store at 2 to 30°C , as directed on the product label.
		To maintain product quality, store according to the instructions in the product labeling.
		Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).
7.3	Specific end uses	No further relevant information available.

### **Section 8 Exposure Controls and Personal Protection**

8.1	Control parameters Exposure Limits	
	US OSHA	
	Isopropyl Alcohol CAS # 67-63-0	400 ppm TWA; 980 mg/m3 TWA
	ACGIH	
	Isopropyl Alcohol CAS # 67-63-0	400 ppm STEL; 200 ppm TWA
	DFG MAK	
	Isopropyl Alcohol CAS # 67-63-0	400 ppm Peak; 1000 mg/m3 Peak; 200 ppm TWA MAK; 500 mg/m3 TWA MAK
	Ireland	
	Isopropyl Alcohol CAS # 67-63-0	200 ppm TWA; 400 ppm STEL; Potential for cutaneous absorption
	IOELVs	None established



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

-		
	NIOSH	
	Isopropyl Alcohol CAS # 67-63-0	2000 ppm IDLH (10% LEL); 500 ppm STEL; 1225 mg/m3 STEL; 400 ppm TWA; 980 mg/m3 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

Physical State	Liquid	Specific Gravity (Water=1.0)	1.04 @20°C
Color	Yellow	Solubility	
Transparency	Clear	Water	Miscible
Odor	Faint aromatic odor	Organic	Not determined
рН	10.9	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not applicable
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not applicable	Explosive Properties	Not applicable
Vapor Density	Not determined	<b>Oxidizing Properties</b>	Not applicable



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

	Odor Threshold	Isopropyl Alcohol 43 ppm geometric mean air odor threshold = (detectable); 19 ppm geometric mean air odor threshold = (recognizable)
9.2	Other Information	No further relevant information available.

# Section 10 Stability and Reactivity

10.1	Reactivity	No further relevant information available.
10.2	Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3	0.3 Possibility of hazardous reactions	
		No further relevant information available.
10.4	Conditions to Avoid	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
10.5	Incompatible materials	No further relevant information available.
10.6	Hazardous Decomposition Pro	oducts
		No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

# Section 11 Toxicological Information

# 11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients		
Isopropyl Alcohol CAS # 67-63-0	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	
Tetradecyltrimethylammonium bromide CAS # 1119-97-7	Oral LD50 Rat 3900 mg/kg	
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.	
Skin Corrosion/Irritation	Causes mild skin irritation.	
Serious eye damage/eye irritation	No data available.	
Respiratory/skin sensitization	No data available.	
Carcinogenicity	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.	
Germ cell mutagenicity	No data available.	
Reproductive Toxicity	No data available.	
Specific target organ toxicity -	- single exposure	
	No data available.	



### Section 11 Toxicological Information (Continued)

	Specific target organ toxicity – repeated exposure	
		No data available.
	Aspiration hazard	No data available.
	Other Information	No further relevant information available.
	Sec	tion 12 Ecological Information
12.1	Ecotoxicity	
	Fresh Water Species	
	Isopropyl Alcohol CAS # 67-63-0	96 h LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 h LC50 Pimephales promelas: 11130 mg/L [static]; 96 h LC50 Lepomis macrochirus: >1400000 μg/L
	Microtox	No information available.
	Water Flea	
	Isopropyl Alcohol CAS # 67-63-0	48 h EC50 Daphnia magna: 13299 mg/L
	Fresh Water Algae	
	Isopropyl Alcohol CAS # 67-63-0	96 h EC50 Desmodesmus subspicatus: >1000 mg/L; 72 h EC50 Desmodesmus subspicatus: >1000 mg/L
12.2	Persistence and degradability	Not determined for the product.
12.3	Bioaccumulation	Not determined for the product.
12.4	Mobility in soil	Not determined for the product.
12.5	Results of PBT and vPvB asse	essment
		Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
12.6	Other Adverse Effects	Harmful to aquatic life. This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

### **Section 13 Disposal Considerations**

13.1 Waste treatment metho	ds
Product Waste Disposa	I Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.
13.2 Additional information	Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.



-

### **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**

Safety, health and environme US Federal and State Regulat	ntal regulations/legislation specific for the substance or mixture ions
SARA 313	Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration (only
CERCLA RG's, 40 CFR 302.4	Potassium Cyanide is listed.
California Proposition 65	Potassium Cyanide has been identified by the State of California to cause cance and reproductive harm. 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. <b>WARNING</b> : This product contains a chemical known to the State of California to cause cancer and reproductive harm.
Massachusetts MSL	Isopropyl Alcohol is listed. Potassium Cyanide is listed.
New Jersey Dept. of Health R	TK List
	Isopropyl Alcohol is listed. Potassium Cyanide is listed.
Pennsylvania RTK	Isopropyl Alcohol is listed. Potassium Cyanide is listed.
EU Regulations	
	tions 1907/2006 (REACH) and amendments.
Water Hazard Class (Germany	,
REACH 1907/2006 EC - Annex	XIV - list of substances subject to authorization.
According to EC Directives (19	No ingredients listed.
-	Risk and Safety Phrases
Irritant Xi	R36 Irritating to eyes.
	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Canada	

### <u>Canada</u>

This product is exempt from WHMIS label and SDS requirements. **PIN**Not applicable



### Section 15 Regulatory Information (Continued)

### Ingredients on Ingredient Disclosure List

Isopropyl Alcohol Citric Acid 1-DODECANAMINE,N,N-DIMETHYL

### Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

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.

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
Revision Changes	Updated to GHS.	
Hazard Class, hazard statements and	d risk phrase description from se	ection 3
	C - Corrosive F - Highly flammable Xi - Irritant Xn - Harmful R11 Highly flammable. R20/21/22 Harmful by inhalation, in co R34 Causes burns. R36 Irritating to eyes. R67 Vapours may cause drowsiness a Aquatic Acute 1 - Aquatic Hazard Acu Eye Dam. 1 - Eye Damage Category Eye Irrit. 2 - Eye Irritation Category 2 Flam. Liq. 2 - Flammable Liquids, Ca Skin Corr. 1C - Skin Corrosion Categ Skin Irrit. 2 - Skin Irritation Category 2 STOT SE 3 - Specific Target Organ To STOT SE 3 - Specific Target Organ To H225 - Highly flammable liquid and va H314 - Causes serious eye damage. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation H336 - May cause drowsiness or dizz H400 - Very toxic to aquatic life.	ontact with skin and if swallowed. and dizziness. ute, Category 1 1 ategory 2 ory 1C 2 oxicity Single Exposure Category 3 oxicity Single Exposure Category 3 apour. d eye damage.

### **Section 16 Other Information**



### Section 16 Other Information (Continued)

Abbreviations and Acronyms	ACGIH - American Conference of Governmental Industrial Hygienists
	ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
	CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
	CLP - Classification, Labeling and Packaging
	DFGMAK - Republic Germany's maximum exposure limit
	GHS - Globally Harmonized System
	HCS - Hazard Communication Standard
	IARC - Internal Agency for Research on Cancer
	IATA - International Air Transport Association
	ICAO - International Civil Aviation Organization
	IMDG - International Maritime Dangerous Goods
	IOELVs - European Unions' Indicative Occupational Exposure Limit Values
	NIOSH - National Institute for Occupational Safety and Health
	NTP - National Toxicology Program
	OSHA - Occupational Safety and Health Administration
	PBT - Persistent bioaccumulative and toxic substances
	SARA - Superfund Amendments and Reauthorization Act
	TDG - Canadian Transportation Of Dangerous Goods Regulations.
	UN GHS - United Nations Globally Harmonized System
	US DOT - United States Department of Transportation
	WHMIS - Workplace Hazardous Material Information System
	vPvB - Very persistent and very bioaccumulative substances
	EC50 - Effective Concentration, 50%
	LC50 - Lethal Concentration, 50%
	LD50 - Lethal Dose, 50%

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

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. 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: 8547134-75 Rev. AF Revised (year/month/day) 2015/04/01

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

oduct Identifier oduct Name rt Number ries Name levant identified uses of oduct Use tails of the supplier of th	<b>Manufacturer</b> Beckman Coulter, Inc.	•
rt Number ries Name levant identified uses of oduct Use	Component of P/N 8547134 Coulter <sup>®</sup> the substance or mixture and u For In Vitro Diagnostic Use. See the safety data sheet Manufacturer Beckman Coulter, Inc.	e product literature for details.
ries Name levant identified uses of oduct Use	Coulter <sup>®</sup> the substance or mixture and u For In Vitro Diagnostic Use. See the safety data sheet Manufacturer Beckman Coulter, Inc.	e product literature for details.
levant identified uses of oduct Use	the substance or mixture and u For In Vitro Diagnostic Use. See the safety data sheet Manufacturer Beckman Coulter, Inc.	e product literature for details.
oduct Use	For In Vitro Diagnostic Use. See <b>e safety data sheet</b> <b>Manufacturer</b> Beckman Coulter, Inc.	e product literature for details.
	ne safety data sheet Manufacturer Beckman Coulter, Inc.	
tails of the supplier of th	<b>Manufacturer</b> Beckman Coulter, Inc.	EC REP Address
	Beckman Coulter, Inc.	EC REP Address
	250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633	Beckman Coulter Eurocenter S.A. 22, rue Juste-Oliver, Case Postale 1044 CH-1260 Nyon 1, Switzerland. Telephone +41 (0)22 365 36 11 Monday through Friday, 9:00 am to 7:00pm)
nail address	SDSNT@beckman.com	
nergency telephone num	ber	
lephone number (24H)	Chemtrec Emergency Tel No. U 703-527-3887	J.S.A. 800-424-9300, International (001)
stributor and Emergency	Phone No.	
	Refer to attached list, Document phone numbers.	ID: 472050, for local distributor and emergency
Ş	Section 2 Hazards Identif	fication
ssification of substance of	or mixture	
duct Description	Mixture	
	Colorless; Clear; Liquid; Odorles	S
ssification according to E	C 1272/2008 (CLP/GHS)	
	Not classified as hazardous per l	EC 1272/2008 (CLP/GHS)
sification according to E	EC Directives 1999/45/EC and 67	7/548/EEC
	Not classified as dangerous per l	EC Directives (1999/45/EC and 67/548 EEC)
alfination and and a to t	•	
sincation according to L	•	US-OSHA HCS 2012 and UN GHS
ssincation according to L	According to EC 1272/2008	(CLP/GHS), US-OSHA and UN GHS
59	sification according to E	Not classified as hazardous per f sification according to EC Directives 1999/45/EC and 6 Not classified as dangerous per f sification according to US-OSHA (HCS 29 CFR 1910.120 Not classified as hazardous per f



### Section 2 Hazards Identification (Continued)

### 2.3 Other hazards

Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

### Section 3 Composition and Information on Ingredients

### 3.2 Mixtures

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	2 Most important symptoms and effects, both acute and delayed		
		No adverse symptoms or effects have been identified.	
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	In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.
5.2 Special hazards arising from the substance or mixture		the substance or mixture
	Special Fire and Explosion Ha	azards
		No special hazards determined.
	Hazardous Combustion Prod	ucts

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 No further relevant information available.

### **Section 6 Accidental Release Measures**

# 6.1 Personal precautions, protective equipment and emergency procedures Personal Precautions No special precautions are necessary. Use good laboratory procedures. Wear protective gloves, protective clothing and eye/face protection. 6.2 Environmental Precautions Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. 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

Store at 2 to 30°C , as directed on the product label.To maintain product quality, store according to the instructions in the product<br/>labeling.Store away from strong acids, strong bases, strong oxidizers and incompatible<br/>materials (section 10).7.3 Specific end usesNo further relevant information 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
	IOELVs	None established
	NIOSH	None established



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

	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.

### **Section 9 Physical and Chemical Properties**

### 9.1 Information on basic physical and chemical properties **Physical State** Liquid Specific Gravity 1.02 @20°C (Water=1.0) Colorless Color Solubility Clear Water Miscible Transparency Odorless Not determined Odor Organic 7.0 Partition coefficient: Not determined bΗ n-octanol/water **Freezing Point** Not determined Auto-ignition Temp. Not applicable **Boiling Point** Not determined Decomposition Not determined Temperature **Flash Point Percent Volatiles** Not applicable Not applicable Not determined **Evaporation Rate** Not determined Vapor Pressure Flammability (Solid, Gas) Viscosity Not determined Not applicable **Flammability Limits** Not applicable **Explosive Properties** Not applicable Vapor Density Not determined **Oxidizing Properties** Not applicable Odor Threshold Not applicable 9.2 **Other Information** No further relevant information available.

### Section 10 Stability and Reactivity

10.1 Reactivity

No further relevant information available.



# Section 10 Stability and Reactivity (Continued)

10.2	Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3	Possibility of hazardous react	ions
		No further relevant information available.
10.4	Conditions to Avoid	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
10.5	Incompatible materials	No further relevant information available.
10.6	.6 Hazardous Decomposition Products	
		No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### **Section 11 Toxicological Information**

### 11.1 Information on toxicological effects Toxicity Data for Hazardous Ingredients

	Not applicable
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
Skin Corrosion/Irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory/skin sensitization	No data available.
Carcinogenicity	This product does not contain a reportable concentration (≥ 0.1%) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
Germ cell mutagenicity	No data available.
Reproductive Toxicity	No data available.
Specific target organ toxicity – single exposure	
	No data available.
Specific target organ toxicity – repeated exposure	
	No data available.
Aspiration hazard	No data available.
Other Information	No further relevant information available.

### **Section 12 Ecological Information**

12.1	Ecotoxicity
	<b>Fresh Water Species</b>

No information available.



### Section 12 Ecological Information (Continued)

	Microtox	No information available.
	Water Flea	No information available.
	Fresh Water Algae	No information available.
12.2	Persistence and degradability	Not determined for the product.
12.3	Bioaccumulation	Not determined for the product.
12.4	Mobility in soil	Not determined for the product.
12.5	2.5 Results of PBT and vPvB assessment	
		Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
12.6	Other Adverse Effects	No further relevant information available.

### **Section 13 Disposal Considerations**

13.1 Waste treatment methods	
Product Waste Disposal	Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.
13.2 Additional information	Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

### **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	Formaldehyde is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration
CERCLA RG's, 40 CFR 302.4	Formaldehyde 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. WARNING: This product contains a chemical known to the State of California to cause cancer.
Massachusetts MSL	Formaldehyde is listed. Trisodium Nitrilotriacetate is listed. Sodium Sulfate is listed.



# Section 15 Regulatory Information (Continued)

New Jersey Dept. of Health RT	'K List	
	Formaldehyde is listed. Propylene Glycol is listed.	
Pennsylvania RTK	Formaldehyde is listed. Propylene Glycol is listed. Sodium Sulfate is listed.	
EU Regulations		
This SDS complies with EC Regulati	ons 1907/2006 (REACH) and amendn	nents.
Water Hazard Class (Germany)	WGK 1, low water endangering	
REACH 1907/2006 EC - Annex 2	XIV - list of substances subject to	o authorization.
	No ingredients listed.	
According to EC Directives (199	99/45/EC and 67/548 EEC)	
Not classified as dangerous per EC D	Directives (1999/45/EC and 67/548 EE	C)
<u>Canada</u>		
This product is exempt from WHMIS	label and SDS requirements.	
PIN	Not applicable	
Ingredients on Ingredient Discl	osure List	
	Formaldehyde	
	Propylene Glycol	
Ingredients with unknown toxic	cological properties	
	Product is exempt	
<b>15.2 Chemical Safety Assessment</b> Some hazardous ingredients listed in Section 15 are concentrations required for reporting in Section 3.	-	
Section 16 Other Information		
Beckman Coulter Safety Rating	Flammability: 0 Health: 1	Code 0=None

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
-------------------------------	--	---

**Revision Changes** 

Updated to GHS.



### Section 16 Other Information (Continued)

Abbreviations and Acronyms	ACGIH - American Conference of Governmental Industrial Hygienists
	ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
	CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
	CLP - Classification, Labeling and Packaging
	DFGMAK - Republic Germany's maximum exposure limit
	GHS - Globally Harmonized System
	HCS - Hazard Communication Standard
	IARC - Internal Agency for Research on Cancer
	IATA - International Air Transport Association
	ICAO - International Civil Aviation Organization
	IMDG - International Maritime Dangerous Goods
	IOELVs - European Unions' Indicative Occupational Exposure Limit Values
	NIOSH - National Institute for Occupational Safety and Health
	NTP - National Toxicology Program
	OSHA - Occupational Safety and Health Administration
	PBT - Persistent bioaccumulative and toxic substances
	SARA - Superfund Amendments and Reauthorization Act
	TDG - Canadian Transportation Of Dangerous Goods Regulations.
	UN GHS - United Nations Globally Harmonized System
	US DOT - United States Department of Transportation
	WHMIS - Workplace Hazardous Material Information System
	vPvB - Very persistent and very bioaccumulative substances

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

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY, BECKMAN COULTER, INC. 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.