

Kit SDS Cover SheetDoc. ID: A98264-75: Rev. AD
Revised (year/month/day) 2013/08/23**Product Information****Product Name** Access AccuTnl+3**Part Number** A98264**Series Name** ACCESS**Additional Product Information**

For use on DxI only

Components**Description** Paramagnetic Particles (Compartment R1a)
0.1N NaOH (Compartment R1b)
Ancillary Reagent (Compartment R1c)
Conjugate (Compartment R1d)**Transport Information**

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
UN/ID Number	3316	3316	3316	3316	3316
Shipping Name	Chemical kit				
Hazard Class	9 Miscellaneous Dangerous Goods	9 Miscellaneous dangerous substances and articles	9 Miscellaneous hazardous material	9 Miscellaneous dangerous substances and articles	9 Miscellaneous Dangerous Goods
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	M11	Not applicable
Packing Group	III	III	III	III	III
Special Provisions	A44; A163	251; 340	15	251	65
Additional information					
IATA ERG Code	9L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-A, S-P	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	171	Not applicable	171
Environmental Hazard					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable
Special Precautions for users					
None					



SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

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

1.1 Product Identifier

Product Name Paramagnetic Particles (Compartment R1a)
Part Number Component of P/N A98264
Series Name ACCESS

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

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

1.3 Details of supplier of the 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 Ireland Inc. Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068
e-mail address	SDSNT@beckman.com	

1.4 Emergency telephone number

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

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
 Reddish-brown when particles suspended; Opaque; Liquid; Odorless

Classification according to EC Directives 1999/45/EC and 67/548/EEC
 Xi;R43

US OSHA Hazardous
WHMIS Exempt

Potential Health Effects Summary Exposure may result in irritation of skin, eyes, and mucous membranes.
 May cause sensitization by skin contact.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 2 Hazards Identification (Continued)

2.2 Label Elements

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

Irritant
Xi



Risk and Safety Phrases

R43 May cause sensitization by skin contact.
S37 Wear suitable gloves.
S28 After contact with skin, wash immediately with plenty of soap and water.

2.3 Other Hazard

Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
Ethoxylated lauryl alcohol CAS # 9002-92-0 EINECS # Not available Index # Not available	1 - 5	Xi;R36/37/38	Acute Tox. Oral 4 Eye Dam. 1 Skin Irrit. 2 H302; H315; H318	Irritant	No	
ProClin* 300 CAS # Not available EINECS # Not available Index # Not available	>=0.0375- <1.5	C;R34-43-20/21/22 N;R51/53	Acute Tox. Dermal 5 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Aquatic Acute 1 Aquatic Longterm 2 Eye Dam. 1 Resp. Sens. 1 Skin Corr. 1B Skin Sens. 1 H302; H313; H314; H317; H318; H332; H334; H400; H411	Corrosive Sensitizer	D2B	15, 9

15 - May produce an allergic reaction.

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin 3-one and 2-methyl-4-isothiazolin-3-one (3:1) is the active ingredient of ProClin 300.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 4 First Aid Measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties Nonflammable aqueous solution.

5.1 Extinguishing Media Use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

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

5.3 Advice for fire fighters

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

5.4 Additional information None

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions This product contains material of animal origin and should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed during clean up procedures.

6.2 Environmental Precautions Contain spill to prevent migration.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 6 Accidental Release Measures (Continued)

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses No data available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA	None established
ACGIH	None established
DFG MAK	None established
Ireland	None established
NIOSH	None established
Japan	None established

8.2 Exposure controls

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

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.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	≈ 1.01
Color	Reddish-brown when particles suspended	Solubility	
Transparency	Opaque	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	7.34	Coefficient of Water/Oil Distribution	Not determined
Freezing Point	Not determined	Autoignition 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
Flammable Limits	Not applicable	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		

9.2 Other Information None

Section 10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Avoid contact with incompatible materials.
10.5 Incompatible materials	Strong acids Strong bases Strong oxidizers Metals and metallic compounds Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 10 Stability and Reactivity (Continued)

10.6 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

Ethoxylated lauryl alcohol CAS # 9002-92-0	Oral LD50 Rat 1 g/kg
---	----------------------

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

Skin Corrosion/Irritation Causes skin irritation.

Serious eye damage/eye irritation Causes eye irritation

Skin/Respiratory sensitization May cause sensitization by skin contact.

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.

Mutagenicity None identified

Reproductive Toxicity None identified

Specific target organ toxicity – single exposure

None identified

Specific target organ toxicity – repeated exposure

None identified

Aspiration hazard None identified

Potential Effects of Acute Exposure

Exposure to ProClin 300 may result in irritation of skin, eyes and mucous membranes. Skin contact may result in possible sensitization. Eye contact may cause clouding of the cornea. Ingestion may cause gastrointestinal irritation; large doses given to animals resulted in collapse and coma.

May cause irritation of the eyes, skin, mucous membrane, and upper respiratory tract.

Potential Effects of Chronic Exposure

Frequent or long-term exposure may result in conjunctivitis and dermatitis.

Symptoms of Overexposure Symptoms may include: coughing, headache, fatigue, nausea, vomiting, dizziness, blurred vision, red and watery eyes, abdominal pain and unconsciousness.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 11 Toxicological Information (Continued)

Conditions Aggravated by Exposure

Persons with a history of asthma or allergies.

Other Information

This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological Information

- | | |
|--|---------------------------|
| 12.1 Ecotoxicity | |
| Fresh Water Species | No information available. |
| Microtox | No information available. |
| Water Flea | No information available. |
| Fresh Water Algae | No information available. |
| 12.2 Persistence and degradability | No information available. |
| 12.3 Bioaccumulation | No information available. |
| 12.4 Mobility in soil | No information available. |
| 12.5 Results of PBT and vPvB assessment | |
| | Not applicable |
| 12.6 Other Adverse Effects | No information available. |

Section 13 Disposal Considerations

- | | |
|-------------------------------------|---|
| 13.1 Waste treatment methods | |
| Product Waste Disposal | Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). |
| 13.2 Additional information | None |

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 |
|--|

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

US Federal and State Regulations

SARA 313

Acetaldehyde is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration
Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration
1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration
Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

CERCLA RG's, 40 CFR 302.4

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

California Proposition 65

Acetaldehyde 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.

Ethylene Oxide has been identified by the State of California to cause cancer 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. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane 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

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

New Jersey Dept. of Health RTK List

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

Pennsylvania RTK

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

EU Regulations

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

Water Hazard Class (Germany) WGK 1, low water endangering

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

Not applicable

Ingredients on Ingredient Disclosure List

Acetaldehyde
Ethylene Oxide
1,4-Dioxane
Zinc Chloride
Ethoxylated lauryl alcohol
Sodium Azide

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment Not available

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

Section 16 Other Information

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

Revision Changes

Revise product use statement.
Update of product hazard classification for WHMIS
Updated Section 11.
Changed kit product name.

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

C - Corrosive
N - Dangerous for the environment
Xi - Irritant
R34 Causes burns.
R43 May cause sensitization by skin contact.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Section 16 Other Information (Continued)

R36/37/38 Irritating to eyes, respiratory system and skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin sensitization)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5

Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1

Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2

Resp. Sens. 1 - Respiratory Sensitization Category 1

Skin Corr. 1B - Skin Corrosion Category 1B

Skin Irrit. 2 - Skin Irritation Category 2

Skin Sens. 1 - Skin Sensitization Category 1

H302 - Harmful if swallowed.

H313 - May be harmful In contact with skin

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Access is a trademark of Beckman Coulter, Inc.

* ProClin is a trademark of the Rohm and Haas Company.

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

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



SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

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

1.1 Product Identifier

Product Name 0.1N NaOH (Compartment R1b)
Part Number Component of P/N A98264
Series Name ACCESS

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

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

1.3 Details of supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633
SDSNT@beckman.com

EC REP Address

Beckman Coulter Ireland Inc.
Mervue Business Park
Mervue, Galway, Ireland
Tel: 353 91 774068

e-mail address

1.4 Emergency telephone number

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

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Translucent; Liquid; Odorless

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

C;R34

US OSHA Hazardous

WHMIS Exempt

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
 Revised (year/month/day) 2013/08/23

Section 2 Hazards Identification (Continued)

2.2 Label Elements

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

Corrosive

C



Risk and Safety Phrases

R34 Causes burns.
 S25 Avoid contact with eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S28 After contact with skin, wash immediately with plenty of soap and water.

2.3 Other Hazard

None identified

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
Sodium Hydroxide CAS # 1310-73-2 EINECS # 215-185-5 Index # 011-002-00-6	< 1	C;R 35	Eye Dam. 1 Skin Corr. 1A H314; H318	Corrosive Toxic	E	

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

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

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation

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

Eye Contact

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

Skin Contact

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

Ingestion

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 4 First Aid Measures (Continued)

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties Nonflammable aqueous solution.

5.1 Extinguishing Media Use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

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

5.3 Advice for fire fighters

Protective Equipment

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

5.4 Additional information None

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions Use good laboratory procedures; avoid eye and skin contact.

6.2 Environmental Precautions Contain spill to prevent migration.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses No data available.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 TWA

ACGIH

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 Ceiling

DFG MAK

None established

Ireland

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 STEL

NIOSH

Sodium Hydroxide
CAS # 1310-73-2 10 mg/m3 IDLH

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
Color	Colorless	Solubility	
Transparency	Translucent	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	13	Coefficient of Water/Oil Distribution	Not determined

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 9 Physical and Chemical Properties (Continued)

Freezing Point	Not determined	Autoignition 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
Flammable Limits	Not applicable	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		
9.2 Other Information	None		

Section 10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Avoid contact with incompatible materials.
10.5 Incompatible materials	Strong oxidizers Strong acids
10.6 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	
Sodium Hydroxide CAS # 1310-73-2	Dermal LD50 Rabbit 1350 mg/kg
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
Skin Corrosion/Irritation	Contact may cause skin burns.
Serious eye damage/eye irritation	Contact may cause serious eye damage.
Skin/Respiratory sensitization	None identified
Carcinogenicity	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Mutagenicity	None identified

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 11 Toxicological Information (Continued)

Reproductive Toxicity None identified

Specific target organ toxicity – single exposure

None identified

Specific target organ toxicity – repeated exposure

None identified

Aspiration hazard None identified

Potential Effects of Acute Exposure

Inhalation of dilute alkaline mists may result in irritation of mucous membranes with sore throat, coughing, difficulty in breathing; intense exposure, the lungs may fill with fluid. Contact with dilute solutions may cause irritation or skin injury with redness, fissures and white patches. Eye contact may result in severe burns with possible loss of sight, irritation of eyes and eyelids, pain and intense watering. Ingestion may result in burns to the mouth, throat and stomach with burning sensations in the mouth, abdominal pain, vomiting, diarrhea, shock and loss of consciousness.

Potential Effects of Chronic Exposure

Repeated skin contact with dilute alkaline may cause irritation with redness and swelling or burns. Repeated eye contact may cause conjunctivitis with redness, swelling and watering or burns. Depending upon concentration, repeated ingestion may result in inflammatory or ulcerative effects on the mouth with redness, swelling and sores in the mouth.

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.

Conditions Aggravated by Exposure

Individuals with eye and skin disorders may find these conditions aggravated by exposure to this product.

Other Information None identified

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Sodium Hydroxide
CAS # 1310-73-2

96 h LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Microtox

No information available.

Water Flea

No information available.

Fresh Water Algae

No information available.

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation No information available.

12.4 Mobility in soil No information available.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other Adverse Effects

No information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information

None

Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID Number	1824	1824	1824	1824	PIN - 1824
14.2 Shipping Name	Sodium hydroxide solution				
14.3 Hazard Class	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	C5	Not applicable
14.4 Packing Group	III	III	III	III	III
Special Provisions	A803	223	N34	None	None
Additional information					
IATA ERG Code	8L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	154	Not applicable	154
14.5 Environmental Hazard					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable
14.6 Special Precautions for users					
	None				

Section 15 Regulatory Information

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

US Federal and State Regulations

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

Sodium Hydroxide is listed.

Pennsylvania RTK Sodium Hydroxide is listed.

EU Regulations

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

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.
No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN 1824

Ingredients on Ingredient Disclosure List

Sodium Hydroxide

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment Not available

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

Section 16 Other Information

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

Revision Changes
Revise product use statement.
Update of product hazard classification for WHMIS
Updated Section 11.
Changed kit product name.

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

C - Corrosive
R 35 Causes severe burns.
E - Corrosive Material
E - TDG Class 8 - corrosive substance
Eye Dam. 1 - Eye Damage Category 1
Skin Corr. 1A - Skin Corrosion Category 1A

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 16 Other Information (Continued)

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

Access is a trademark of Beckman Coulter, Inc.

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

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



SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

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

1.1 Product Identifier

Product Name Ancillary Reagent (Compartment R1c)
Part Number Component of P/N A98264
Series Name ACCESS

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

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

1.3 Details of supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633
SDSNT@beckman.com

EC REP Address

Beckman Coulter Ireland Inc.
Mervue Business Park
Mervue, Galway, Ireland
Tel: 353 91 774068

e-mail address

1.4 Emergency telephone number

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

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Clear; Liquid; Odorless

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

Xi;R43

US OSHA Not applicable

WHMIS Exempt

Potential Health Effects Summary Exposure may result in irritation of skin, eyes, and mucous membranes.
May cause sensitization by skin contact.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 2 Hazards Identification (Continued)

2.2 Label Elements

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

Irritant
Xi



Risk and Safety Phrases

R43 May cause sensitization by skin contact.
S37 Wear suitable gloves.
S28 After contact with skin, wash immediately with plenty of soap and water.

2.3 Other Hazard

Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

N,N-Dimethylformamide is included as a substance of very high concern (SVHC) in European Chemicals Agency's (ECHA) candidate list. This product contains N,N-Dimethylformamide (CAS# 68-12-2) at < 0.1% concentration below the hazard concentration limit.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
ProClin* 300 CAS # Not available EINECS # Not available Index # Not available	>=0.0375- <1.5	C;R34-43-20/21/22 N;R51/53	Acute Tox. Dermal 5 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Aquatic Acute 1 Aquatic Longterm 2 Eye Dam. 1 Resp. Sens. 1 Skin Corr. 1B Skin Sens. 1 H302; H313; H314; H317; H318; H332; H334; H400; H411	Corrosive Sensitizer	D2B	15, 9

15 - May produce an allergic reaction.

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin 3-one and 2-methyl-4-isothiazolin-3-one (3:1) is the active ingredient of ProClin 300.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

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

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

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. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

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

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures	
Personal Precautions	Use good laboratory procedures; avoid eye and skin contact.
6.2 Environmental Precautions	Contain spill to prevent migration.
6.3 Methods and material for containment and cleaning up	
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
6.4 Reference to other sections	Refer sections 8 and 13.

Section 7 Handling and Storage

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 7 Handling and Storage (Continued)

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

No data available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA	None established
ACGIH	None established
DFG MAK	None established
Ireland	None established
NIOSH	None established
Japan	None established

8.2 Exposure controls

Engineering Controls

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

Eye Protection

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

Skin Protection

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

Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection. 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)	≈ 1.01
Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	8.31	Coefficient of Water/Oil Distribution	Not determined
Freezing Point	Not determined	Autoignition Temp.	Not applicable

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 9 Physical and Chemical Properties (Continued)

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
Flammable Limits	Not applicable	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		
9.2 Other Information	None		

Section 10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Avoid contact with incompatible materials.
10.5 Incompatible materials	Strong acids Strong bases Strong oxidizers Metals and metallic compounds Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
10.6 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	Causes skin irritation.
Serious eye damage/eye irritation	Causes eye irritation
Skin/Respiratory sensitization	May cause sensitization by skin contact.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 11 Toxicological Information (Continued)

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.
Mutagenicity	None identified
Reproductive Toxicity	This product contains $< 0.1\%$ w/w of reproductive toxin substance which is included in ECHA's Candidate List of SVHC.
Specific target organ toxicity – single exposure	None identified
Specific target organ toxicity – repeated exposure	None identified
Aspiration hazard	None identified
Potential Effects of Acute Exposure	Exposure to ProClin 300 may result in irritation of skin, eyes and mucous membranes. Skin contact may result in possible sensitization. Eye contact may cause clouding of the cornea. Ingestion may cause gastrointestinal irritation; large doses given to animals resulted in collapse and coma.
Potential Effects of Chronic Exposure	Frequent or long-term eye and skin exposure to ProClin 300 may result in conjunctivitis and dermatitis.
Symptoms of Overexposure	Symptoms may include: coughing, headache, fatigue, nausea, vomiting, dizziness, blurred vision, red and watery eyes, abdominal pain and unconsciousness.
Conditions Aggravated by Exposure	Persons with a history of asthma or allergies.
Other Information	None identified

Section 12 Ecological Information

12.1 Ecotoxicity	
Fresh Water Species	No information available.
Microtox	No information available.
Water Flea	No information available.
Fresh Water Algae	No information available.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulation	No information available.
12.4 Mobility in soil	No information available.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other Adverse Effects

No information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

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

13.2 Additional information

None

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

N,N-Dimethylformamide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

Acetaldehyde is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

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

CERCLA RG's, 40 CFR 302.4

N,N-Dimethylformamide is listed.

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

California Proposition 65

Acetaldehyde 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.

Ethylene Oxide has been identified by the State of California to cause cancer 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. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane 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

N,N-Dimethylformamide is listed.

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

New Jersey Dept. of Health RTK List

N,N-Dimethylformamide is listed.

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

Pennsylvania RTK

N,N-Dimethylformamide is listed.

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

EU Regulations

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

Water Hazard Class (Germany) WGK 1, low water endangering

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

Not applicable

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

Ingredients on Ingredient Disclosure List

N,N-Dimethylformamide
Acetaldehyde
Ethylene Oxide
1,4-Dioxane
Sodium Azide

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment Not available

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

Section 16 Other Information

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

Revision Changes

Revise product use statement.
Update of product hazard classification for WHMIS
Updated Section 11.
Changed kit product name.
SVHC information added in Section-2 and Section-11

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

C - Corrosive
N - Dangerous for the environment
R34 Causes burns.
R43 May cause sensitization by skin contact.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.
D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin sensitization)
D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5
Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Eye Dam. 1 - Eye Damage Category 1
Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2
Resp. Sens. 1 - Respiratory Sensitization Category 1
Skin Corr. 1B - Skin Corrosion Category 1B
Skin Sens. 1 - Skin Sensitization Category 1
H302 - Harmful if swallowed.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 16 Other Information (Continued)

H313 - May be harmful In contact with skin
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Access is a trademark of Beckman Coulter, Inc.

* ProClin is a trademark of the Rohm and Haas Company.

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

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



SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

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

1.1 Product Identifier

Product Name Conjugate (Compartment R1d)
Part Number Component of P/N A98264
Series Name ACCESS

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

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

1.3 Details of supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633
SDSNT@beckman.com

EC REP Address

Beckman Coulter Ireland Inc.
Mervue Business Park
Mervue, Galway, Ireland
Tel: 353 91 774068

e-mail address

1.4 Emergency telephone number

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

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Clear; Liquid; Odorless

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

Xi;R43

US OSHA Hazardous

WHMIS Exempt

Potential Health Effects Summary Exposure may result in irritation of skin, eyes, and mucous membranes.
May cause sensitization by skin contact.
Toxic by ingestion and skin absorption.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 2 Hazards Identification (Continued)

2.2 Label Elements

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

Irritant

Xi



Risk and Safety Phrases

R43 May cause sensitization by skin contact.

S37 Wear suitable gloves.

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

2.3 Other Hazard

Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS	
Lithium Chloride CAS # 7447-41-8 EINECS # 231-212-3 Index # Not available	1 - 5	Xn;R22-36/38	Acute Tox. Dermal 4 Acute Tox. Oral 4 Eye Irrit. 2 Skin Irrit. 2 H302; H312; H315; H319	Irritant Toxic	D2B	
ProClin* 300 CAS # Not available EINECS # Not available Index # Not available	>=0.0375- <1.5	C;R34-43-20/21/22 N;R51/53	Acute Tox. Dermal 5 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Aquatic Acute 1 Aquatic Longterm 2 Eye Dam. 1 Resp. Sens. 1 Skin Corr. 1B Skin Sens. 1 H302; H313; H314; H317; H318; H332; H334; H400; H411	Corrosive Sensitizer	D2B	15, 9

15 - May produce an allergic reaction.

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin 3-one and 2-methyl-4-isothiazolin-3-one (3:1) is the active ingredient of ProClin 300.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

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

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 4 First Aid Measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties	Nonflammable aqueous solution.
-----------------------------	--------------------------------

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

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

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

5.3 Advice for fire fighters

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

5.4 Additional information	None
-----------------------------------	------

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions	This product contains material of animal origin and should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed during clean up procedures.
-----------------------------	---

6.2 Environmental Precautions	Contain spill to prevent migration.
--------------------------------------	-------------------------------------

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 6 Accidental Release Measures (Continued)

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from incompatible material (see Section 10).
To maintain efficacy, store according to the instructions in the product labeling.

7.3 Specific end uses No data available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA	None established
ACGIH	None established
DFG MAK	None established
Ireland	None established
NIOSH	None established
Japan	None established

8.2 Exposure controls

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

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.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	≈ 1.02
Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	6.0	Coefficient of Water/Oil Distribution	Not determined
Freezing Point	Not determined	Autoignition 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
Flammable Limits	Not applicable	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		

9.2 Other Information None

Section 10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Avoid contact with incompatible materials.
10.5 Incompatible materials	Strong bases Strong acids Strong oxidizers Metals and metallic compounds Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 10 Stability and Reactivity (Continued)

10.6 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

Lithium Chloride
CAS # 7447-41-8

Oral LD50 Rat 526 mg/kg; Dermal LD50 Rat 1488 mg/kg

Primary Routes of Exposure

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

Skin Corrosion/Irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation

Skin/Respiratory sensitization

May cause sensitization by skin contact.

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.

Mutagenicity

None identified

Reproductive Toxicity

None identified

Specific target organ toxicity – single exposure

None identified

Specific target organ toxicity – repeated exposure

None identified

Aspiration hazard

None identified

Potential Effects of Acute Exposure

Skin or eye contact may cause irritation. Ingestion may result in gastrointestinal discomfort and diarrhea.

Exposure to ProClin 300 may result in irritation of skin, eyes and mucous membranes. Skin contact may result in possible sensitization. Eye contact may cause clouding of the cornea. Ingestion may cause gastrointestinal irritation; large doses given to animals resulted in collapse and coma.

Potential Effects of Chronic Exposure

Effects are similar to those for acute exposure.

Frequent or long-term eye and skin exposure to ProClin 300 may result in conjunctivitis and dermatitis.

Symptoms of Overexposure

Symptoms may include: coughing, headache, fatigue, nausea, vomiting, dizziness, blurred vision, red and watery eyes, abdominal pain and unconsciousness.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 11 Toxicological Information (Continued)

Conditions Aggravated by Exposure

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

Persons with a history of asthma or allergies.

Other Information

This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological Information

- | | |
|--|---------------------------|
| 12.1 Ecotoxicity | |
| Fresh Water Species | No information available. |
| Microtox | No information available. |
| Water Flea | No information available. |
| Fresh Water Algae | No information available. |
| 12.2 Persistence and degradability | No information available. |
| 12.3 Bioaccumulation | No information available. |
| 12.4 Mobility in soil | No information available. |
| 12.5 Results of PBT and vPvB assessment | |
| | Not applicable |
| 12.6 Other Adverse Effects | No information available. |

Section 13 Disposal Considerations

- | | |
|-------------------------------------|--|
| 13.1 Waste treatment methods | |
| Product Waste Disposal | Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). |
| 13.2 Additional information | None |

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 |
|--|

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

US Federal and State Regulations

SARA 313

Acetaldehyde is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

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

CERCLA RG's, 40 CFR 302.4

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Phosphate, Dibasic is listed.

Zinc Chloride is listed.

Sodium Azide is listed.

California Proposition 65

Acetaldehyde 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.

Ethylene Oxide has been identified by the State of California to cause cancer 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. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane 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

Acetaldehyde is listed.

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Phosphate, Dibasic is listed.

Zinc Chloride is listed.

Sodium Azide is listed.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 15 Regulatory Information (Continued)

New Jersey Dept. of Health RTK List

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Sodium Phosphate, Dibasic is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

Pennsylvania RTK

Acetaldehyde is listed.
Ethylene Oxide is listed.
1,4-Dioxane is listed.
Sodium Phosphate, Dibasic is listed.
Zinc Chloride is listed.
Sodium Azide is listed.

EU Regulations

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

Water Hazard Class (Germany) WGK 1, low water endangering

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN Not applicable

Ingredients on Ingredient Disclosure List

Acetaldehyde
Ethylene Oxide
1,4-Dioxane
Zinc Chloride
Sodium Azide

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment Not available

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

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 2 Reactivity with Water: 0 Contact: 2	Code 0=None 1=Slight 2=Caution 3=Severe
Revision Changes	Revise product use statement. Update of product hazard classification for WHMIS Updated Section 11.	

Section 16 Other Information (Continued)

Changed kit product name.

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

C - Corrosive

N - Dangerous for the environment

Xn - Harmful

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R34 Causes burns.

R43 May cause sensitization by skin contact.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Chronic Toxic Effects)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin sensitization)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Dermal 4 - Acute Toxicity Dermal, Category 4

Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5

Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1

Eye Irrit. 2 - Eye Irritation Category 2

Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2

Resp. Sens. 1 - Respiratory Sensitization Category 1

Skin Corr. 1B - Skin Corrosion Category 1B

Skin Irrit. 2 - Skin Irritation Category 2

Skin Sens. 1 - Skin Sensitization Category 1

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H313 - May be harmful In contact with skin

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 - Very toxic to aquatic life.

SAFETY DATA SHEET

Doc. ID: A98264-75 AD
Revised (year/month/day) 2013/08/23

Section 16 Other Information (Continued)

H411 - Toxic to aquatic life with long lasting effects.

Access is a trademark of Beckman Coulter, Inc.

* ProClin is a trademark of the Rohm and Haas Company.

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.