



## SAFETY DATA SHEET

Doc. ID: 8547113-75 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** A<sup>c</sup>-T RINSE SHUTDOWN DILUENT  
**Part Number** 8547113

#### 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 the supplier of the safety data sheet

##### Manufacturer

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

##### EC REP Address

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 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  
Blue; Clear; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Respiratory Sensitization Category 1  
Skin Sensitization Category 1

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

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

##### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Sensitization Category 1  
Respiratory Sensitization Category 1

## Section 2 Hazards Identification (Continued)

### 2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

#### Hazardous Ingredients

Diazolidinyl Urea

Subtilisin

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

#### Pictogram



#### Signal Word

DANGER

#### Hazard Statements

H317 May cause an allergic skin reaction.

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

#### Precautionary Statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye/face protection.

P284 In case of inadequate ventilation, wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P362+P364 Take off contaminated clothing and wash it before use.

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 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:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	

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## Section 3 Composition and Information on Ingredients (Continued)

Diazolidinyl Urea CAS # 78491-02-8 EINECS # 278-928-2 Index # Not available	< 1	Xi;R43	Skin Sens. 1 H317	Acute Tox. Dermal 5 Acute Tox. Oral 5 Skin Sens. 1 H303; H313; H317	
Subtilisin CAS # 9014-01-1 EINECS # 232-752-2 Index # 647-012-00-8	< 1	Xn;R37/38-41-42	Eye Dam. 1 Resp. Sens. 1 STOT SE 3 Skin Irrit. 2 H315; H318; H334; H335	Acute Tox. Oral 5 Eye Dam. 1 Resp. Sens. 1 STOT SE 3 Skin Irrit. 2 H303; H315; H318; H334; H335	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9 EINECS # Not available Index # Not available	< 0.0015	T;R23/24/25-34-43 N;R50/53	Acute Tox. Dermal 3 Acute Tox. Inhal. 3 Acute Tox. Oral 3 Aquatic Acute 1 Aquatic Longterm 1 Skin Corr. 1B Skin Sens. 1 H301; H311; H314; H317; H331; H400; H410	Acute Tox. Dermal 3 Acute Tox. Inhal. 3 Acute Tox. Oral 3 Aquatic Acute 1 Aquatic Longterm 1 Skin Corr. 1B Skin Sens. 1 H301; H311; H314; H317; H331; H400; H410	10, 15, 8

10 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6] (3:1) is the active ingredient of ProClin 150.

15 - May produce an allergic reaction.

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

## 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 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

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

See Section 11 Toxicological Information for more detailed health information.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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### Section 5 Fire Fighting Measures

<b>Flammable Properties</b>	Nonflammable aqueous solution.
<b>5.1 Extinguishing Media</b>	In case of fire use carbon dioxide (CO <sub>2</sub> ), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	
<b>Special Fire and Explosion Hazards</b>	No special hazards determined.
<b>Hazardous Combustion Products</b>	
	No combustion products posing significant hazards are expected from this product (an aqueous solution).
<b>5.3 Advice for fire fighters</b>	
<b>Protective Equipment</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
<b>5.4 Additional information</b>	No further relevant information available.

### Section 6 Accidental Release Measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>Personal Precautions</b>	Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and eye/face protection.
<b>6.2 Environmental Precautions</b>	Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water.
<b>6.3 Methods and material for containment and cleaning up</b>	
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>6.4 Reference to other sections</b>	Refer sections 8 and 13.

### Section 7 Handling and Storage

<b>7.1 Precautions for safe handling</b>	Use good laboratory procedures; avoid eye and skin contact.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store at 2 to 25°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).
<b>7.3 Specific end uses</b>	No further relevant information available.

## Section 8 Exposure Controls and Personal Protection

### 8.1 Control parameters

#### Exposure Limits

##### US OSHA

None established

##### ACGIH

Subtilisin  
CAS # 9014-01-1

0.00006 mg/m3 Ceiling (as as crystalline active enzyme) (listed under Subtilisins)

##### DFG MAK

None established

##### Ireland

Subtilisin  
CAS # 9014-01-1

0.00006 mg/m3 TWA (Proteolytic enzymes) (as 100% pure crystalline enzyme);  
0.00006 mg/m3 STEL

##### IOELVs

None established

##### NIOSH

Subtilisin  
CAS # 9014-01-1

0.00006 mg/m3 STEL (60 min) (listed under Subtilisins)

##### 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

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	1.04 @20°C
<b>Color</b>	Blue	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	8.5 - 8.9	<b>Partition coefficient: n-octanol/water</b>	Not determined

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

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	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.
10.2 Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3 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 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	
Subtilisin CAS # 9014-01-1	Oral LD50 Rat 3700 mg/kg
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	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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### Section 11 Toxicological Information (Continued)

<b>Carcinogenicity</b>	This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
<b>Germ cell mutagenicity</b>	No data available.
<b>Reproductive Toxicity</b>	No data available.
<b>Specific target organ toxicity – single exposure</b>	No data available.
<b>Specific target organ toxicity – repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Other Information</b>	No further relevant information available.

### Section 12 Ecological Information

<b>12.1 Ecotoxicity</b>	
<b>Fresh Water Species</b>	No information available.
<b>Microtox</b>	No information available.
<b>Water Flea</b>	No information available.
<b>Fresh Water Algae</b>	No information available.
<b>12.2 Persistence and degradability</b>	Not determined for the product.
<b>12.3 Bioaccumulation</b>	Not determined for the product.
<b>12.4 Mobility in soil</b>	Not determined for the product.
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
<b>12.6 Other Adverse Effects</b>	This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

### Section 13 Disposal Considerations

<b>13.1 Waste treatment methods</b>	
<b>Product Waste Disposal</b>	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.
<b>13.2 Additional information</b>	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.

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### Section 14 Transport Information

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

### Section 15 Regulatory Information

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

##### US Federal and State Regulations

- SARA 313** 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
- CERCLA RG's, 40 CFR 302.4** Ethylene Oxide is listed.  
1,4-Dioxane is listed.  
Phosphoric Acid is listed.
- California Proposition 65** 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.  
**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.  
**WARNING:** This product contains a chemical known to the State of California to cause cancer.
- Massachusetts MSL** Ethylene Oxide is listed.  
Ethylene Glycol Monobutyl Ether is listed.  
1,4-Dioxane is listed.  
Phosphoric Acid is listed.  
Magnesium Nitrate is listed.
- New Jersey Dept. of Health RTK List**  
Propylene Glycol is listed.  
Ethylene Oxide is listed.  
Ethylene Glycol Monobutyl Ether is listed.  
1,4-Dioxane is listed.  
Patent Blue VF is listed.  
Phosphoric Acid is listed.  
Magnesium Nitrate is listed.



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### Section 15 Regulatory Information (Continued)

#### Pennsylvania RTK

Propylene Glycol is listed.  
Ethylene Oxide is listed.  
Ethylene Glycol Monobutyl Ether is listed.  
1,4-Dioxane is listed.  
Phosphoric Acid is listed.  
Magnesium Nitrate 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.

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

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

#### Canada

This product is exempt from WHMIS label and SDS requirements.

**PIN** Not applicable

#### **Ingredients on Ingredient Disclosure List**

Propylene Glycol  
Ethylene Oxide  
Ethylene Glycol Monobutyl Ether  
1,4-Dioxane  
Phosphoric Acid

#### **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.*

### Section 16 Other Information

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

#### Revision Changes

Updated to GHS.

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

N - Dangerous for the environment  
T - Toxic  
Xi - Irritant  
Xn - Harmful  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.

## Section 16 Other Information (Continued)

R43 May cause sensitization by skin contact.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R42 May cause sensitization by inhalation.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3  
Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5  
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3  
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3  
Acute Tox. Oral 5 - Acute Toxicity Oral, Category 5  
Eye Dam. 1 - Eye Damage Category 1  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
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  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
H301 - Toxic if swallowed.  
H303 - May be harmful if swallowed  
H311 - Toxic 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.  
H331 - Toxic if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.  
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

## Abbreviations and Acronyms

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### Section 16 Other Information (Continued)

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  
LD50 - Lethal Dose, 50%

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

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