

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Pierce Administration

? **Section 1. Chemical Product and Company Identification**

Product name **Easy-Titer® Blocking Buffer**

Product No. 1856171

Supplier	<i>In USA:</i> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<i>In Europe:</i> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	Manufacturer	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CALL CHEMTREC:

800.424.9300
OUTSIDE US:
202.483.7616

Print Date 11/19/2002

Validation Date **11/4/2002**

MSDS# 3812

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

 **Section 2. Composition, Information on Ingredients**

Substance/Preparation : Preparation

Ingredient Name	CAS No.	%	EC Number	Symbol	R-Phrases
1) Sodium Azide	26628-22-8	0-0.1	247-852-1	T+, N	R28, R32, R50/53
2) Blocking Buffer Component 1		0.1-1	231-598-3	--	Not controlled under dsd (Europe).
3) Polyoxyethylene sorbitan monolaurate		0.1-1	Not available.	Xi	R36

 **Section 3. Hazards Identification**

United States Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview WARNING!

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
KIDNEYS, NERVOUS SYSTEM, MUCOUS MEMBRANES, HEART, BRAIN,
CARDIOVASCULAR SYSTEM, RESPIRATORY TRACT, SKIN, EYES, CENTRAL
NERVOUS SYSTEM, EYE, LENS OR CORNEA, STOMACH.
MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Wash thoroughly after handling.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Carcinogenic Effects Data **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [Sodium Azide]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Sodium Azide]. Classified None. by NIOSH [Polyoxyethylene sorbitan monolaurate].

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification R22

Physical/chemical hazards Not applicable.

Human health hazards Harmful if ingested.

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Environmental hazards Not applicable.

See Toxicological Information (section 11)

+ Section 4. First Aid Measures

Notice to Reader Get immediate medical attention.

Effects and symptoms

Inhalation Slightly hazardous in case of inhalation.

Ingestion Slightly hazardous in case of ingestion.

Skin Contact Sensitization of the product: Not available.

Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact Slightly hazardous in case of eye contact (irritant).

Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

First-Aid Measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Notes to Physician Not available.

Protection of first-aiders Not available.

🔥 Section 5. Fire Fighting Measures

Flammability of the Product Non-flammable.

Flash Points Not applicable.

Fire Hazards in Presence of Various Substances Not applicable.

Fire Fighting Media and Instructions Not applicable.

Protective Clothing (Fire) Not applicable.

Hazardous thermal (de)composition products Not applicable.

Section 6. Accidental Release Measures

Personal precautions Safety glasses. Lab coat.

Environmental Precautions and Clean-up Methods Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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Section 7. Handling and Storage

Handling Do not ingest. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4°F).

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Packaging materials

Suitable / Not suitable Use original container.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Exposure Limit Values

Ingredient Name

Occupational Exposure Limits

United States

Sweden

1) Sodium Azide	Not available.
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

Denmark

1) Sodium Azide	TWA: 0.3 CEIL: 0.3 (mg/m ³) from Arbejdstilsynet [Denmark] [1996] Inhalation
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

Norway

1) Sodium Azide	TWA: 0.3 CEIL: 0.3 (mg/m ³) from Arbejdstilsynet [Norway] [1996] Inhalation
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

France

1) Sodium Azide	STEL: 0.1 (ppm) from INRS [France] [1999] Inhalation
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

Netherlands

1) Sodium Azide	TWA: 0.3 CEIL: 0.1 (ppm) from Arbeidsinspectie [Netherlands] [2000] Inhalation
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

Germany

1) Sodium Azide	TWA: 0.2 CEIL: 0.1 (mg/m ³) from BAuA [Germany] [1999] Inhalation
2) Blocking Buffer Component 1	Not available.
3) Polyoxyethylene sorbitan monolaurate	Not available.

Personal Protection

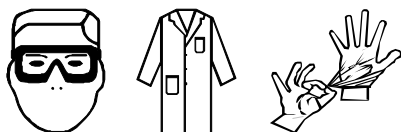
Eyes Splash goggles.

Body Lab coat.

Hands Gloves.

Respiratory Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

Protective Clothing
(Pictograms)





Section 9. Physical and Chemical Properties

Physical State and Appearance Liquid.

Odor Not available.

Molecular Weight Not applicable.

Taste Not available.

pH (1% Soln/Water) Neutral.

Color Clear Colorless.

Boiling/Condensation Point The lowest known value is 100°C (212°F) (Milli-Q Water).

Melting/Freezing Point May start to solidify at -0.1°C (31.8°F) based on data for: Milli-Q Water.

Specific Gravity The only known value is 1 (Water = 1) (Milli-Q Water).

Vapor Pressure The highest known value is 2.3 kPa (@ 20°C) (Milli-Q Water).

Vapor Density The highest known value is 0.62 (Air = 1) (Milli-Q Water).

Evaporation Rate 0.36 (Milli-Q Water) compared to Butyl acetate.

Dispersion Properties See solubility in water.

Solubility Soluble in cold water, hot water.



Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions to avoid Reacts violently with water especially when water is added to the product. Heating may cause an explosion. Keep away from heat (Sodium Azide)

Materials to avoid Not available.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Not applicable.



Section 11. Toxicological Information

Toxicity to Animals LD50: Not available.
LC50: Not available.

Chronic Effects on Humans **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [Sodium Azide]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Sodium Azide]. Classified None. by NIOSH [Polyoxyethylene sorbitan monolaurate].

Other Toxic Effects on Humans Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Special Remarks on Other Toxic Effects on Humans To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.



Section 12. Ecological Information

Mobility Not available.

Persistence/degradability Not available.

Bioaccumulative potential Not available.

Ecotoxicity Not available.

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Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.



Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.



Section 15. Regulatory Information

Label Requirements (Europe)

R22- Harmful if swallowed.

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately and show this container or label.



Harmful

HCS Classification

Target organ effects.

U.S. Federal Regulations TSCA 8(b) inventory: Milli-Q Water; Sodium Azide; Blocking Buffer Component 1; Polyoxyethylene sorbitan monolaurate
 TSCA 8(d) H and S data reporting: Sodium Azide; Polyoxyethylene sorbitan monolaurate
 SARA 302/304/311/312 extremely hazardous substances: Sodium Azide
 SARA 302/304 emergency planning and notification: Sodium Azide
 SARA 302/304/311/312 hazardous chemicals: Sodium Azide; Blocking Buffer Component 1
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Azide: immediate health hazard; Blocking Buffer Component 1: immediate health hazard, delayed health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

CEPA DSL: Milli-Q Water; Sodium Azide; Blocking Buffer Component 1; Polyoxyethylene sorbitan monolaurate

CEPA NDSL: Sodium Azide

International Regulations

EINECS Not available.

DSCL (EEC) R22- Harmful if swallowed.

International Lists

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Australia (NICNAS): Milli-Q Water; Sodium Azide; Blocking Buffer Component 1; Polyoxyethylene sorbitan monolaurate

Germany water class: Sodium Azide; Polyoxyethylene sorbitan monolaurate

VCI WGK: No products were found.

Korea (TCCL): Milli-Q Water; Sodium Azide; Blocking Buffer Component 1; Polyoxyethylene sorbitan monolaurate

Philippines (RA6969): Milli-Q Water; Sodium Azide; Blocking Buffer Component 1; Polyoxyethylene sorbitan monolaurate

State Regulations Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)

Florida: Sodium Azide

Minnesota: Sodium Azide

Massachusetts RTK: Sodium Azide

New Jersey: Sodium Azide

California prop. 65: **No products were found.**

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		a

National Fire Protection Association (U.S.A.)



References Not available.

History of Document Changes Any information changes since last document version are marked with a triangle symbol.

Full text of R-Phrases referenced under headings 2 and 3:
 Very toxic if swallowed.
 Contact with acids liberates very toxic gas.
 Not applicable.
 Irritating to eyes.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Pierce Administration on 11/4/2002.

Verified by Pierce Administration.

Date of Previous Issue No Previous Validation

Printed 11/19/2002.

Version 0.01

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.