



Expedeon Ltd.,
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MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Trade Name: RunBlue[®] DNA/Native Sample Buffer all volumes

Manufacturer/Supplier:

Expedeon Ltd, Button End Unit 1A, Harston, Cambridgeshire, CB22 7GX, United Kingdom

Information department: Technical Services, customer support. Telephone number: +44 1223 873364

2. COMPOSITION / INFORMATION OF COMPONENTS

Mixture of the following substances with non-hazardous additions:

Chemical Name	%	CAS #	EINECS #
Triethanolamine acetate	5 to 15%	14806-72-5	Not available

3. HAZARDS IDENTIFICATION

Potential Health Effects:

EMERGENCY OVERVIEW

WARNING!

MAY BE HARMFUL. MAY BE IRRITATING.

CONTAINS COMPONENT THAT IS A POSSIBLE CARCINOGEN.

Eye:

Can cause minor irritation, tearing and reddening.

Skin:

This material may cause skin irritation. Reddening, itching and inflammation may result. Not likely to cause acute or permanent damage.

Inhalation:

May cause irritation to the respiratory tract. This material may cause injury or illness if inhaled.



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Ingestion:

If ingested, this material may be irritating to mouth, throat and gastrointestinal tract. May be harmful if swallowed.

Special Toxic Effects

Some studies indicate that Triethanolamine acetate may be a tumor promoter in laboratory animals. (See Section 11).

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.

Target Organs:

ND

4. FIRST AID MEASURES

Eye:

Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin:

Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately and discard contaminated leather goods. Get medical attention immediately.

Inhalation:

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Ingestion:

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.

Note to Physician:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint	ND
Lower Flammable Limit %	ND
Upper Flammable Limit %	ND
Autoignition Temperature	ND



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Extinguishing Media:

Use extinguisher media appropriate for surrounding fire.

Firefighting Techniques / Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products:

MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

6. ACCIDENTAL RELEASE MEASURES

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to section 8 for personal protection equipment recommendations.

Spill Cleanup:

Exposure to the spilled material may be irritating. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

7. HANDLING AND STORAGE

Storage pressure: Ambient.

Handling Procedures:

DO NOT GET IN EYES, ON SKIN OR CLOTHING. Wash hands thoroughly before eating, drinking or smoking.

Storage Procedures:

Store in a cool location. Isolate from incompatible materials and conditions. Keep container(s) closed. The material is suitable for most general chemical storage areas, including refrigerators, but not to be stored with food.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

No special exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.



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Personal Protective Equipment:

Eye: An eye wash station must be available where this product is used. Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Have a safety shower available.

Respiratory:
No special equipment is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Liquid solution / suspension

Odour: no odour

Boiling point (°C): ND

Melting Point (°C): ND

Solubility in water: ND

pH: 7.6 to 8.4

Vapor Pressure: ND

Vapor Density: ND

Specific Gravity/Density: ND

Octanol/water Partition Coeff: ND

Volatiles: ND

Evaporation Rate: ND

Viscosity: ND

10. STABILITY AND REACTIVITY

Stability/Incompatibility:

Stable under normal conditions of use. Incompatible with oxidizing agents, acids, acid chlorides and acid anhydrides.

Hazardous Decomposition Products:

Nitrogen oxides, Carbon dioxide. Carbon monoxide.



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Hazardous Polymerization:
Will not occur.

11. TOXICOLOGICAL INFORMATION

Only selected toxicological data is presented here. See actual entry in RTECS for complete information.

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. FOLLOW GOOD LABORATORY PRACTICES WHEN HANDLING.

FOR PURE TRIETHANOLAMINE-HYDROCHLORIDE:

Tumorigenic Data

Oral TDLo - mouse = Dose/Duration: 123 gm/kg/2.2Y-C, Toxic Effects: Tumorigenic - Carcinogenic by RTECS criteria, Blood - lymphoma, including Hodgkin's disease, Skin and Appendages - tumors.

Routes of Exposure

Inhalation, ingestion, skin and eye contact

LD50

NO ORAL LD50 IN RATS INFORMATION IS AVAILABLE.
REGISTRY OF THE TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
RTECS # KL9346500 (Ethanol, 2,2',2''-nitrilotris-, hydrochloride)

Carcinogenicity

NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: DATA NOT YET AVAILABLE.

Environmental Fate (Degradation, Transformation, and Persistence): DATA NOT YET AVAILABLE.



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13. DISPOSAL CONSIDERATIONS

Waste Disposal

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

If the material is determined to be a hazardous waste, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities.

Contact your local disposal service provider(s) for appropriate method(s) of disposal.

14. TRANSPORT INFORMATION

Proper Shipping Name: NOT REGULATED

Hazard Class: NA

UN/NA Code: NA

Packaging Group: NA

Reportable Quantity: None

Labels Required: NA

Marine Pollutant (49 CFR 172.101 Appendix B): No

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS

International Phrases

R - 45 May cause cancer.

S - 23 Do not breathe gas/fumes/vapour/spray

24/25 Avoid contact with skin and eyes.

36/37/39 Wear suitable protective clothing, gloves & eye/face protection.

EINECS Numbers: See page 1 of this document.

SARA TITLE III RATINGS for Pure Triethanolamine-HCl

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard	SARA 313 Chemical
	X				



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NFPA RATINGS for Pure Components

Component	Health	Flammability	Reactivity	Special Hazards
Triethanolamine-Hydrochloride	-	-	-	-

HMIS Ratings for Pure Components

Component	Health	Flammability	Reactivity	Personal Protection Equipment
Triethanolamine-Hydrochloride	2	0	0	I

U.S. FEDERAL REGULATIONS

All ingredients are listed on Inventory of Existing Chemical Substances under the Toxic Substances Control Act (TSCA).

U.S. STATE REGULATIONS

Based on available information, this material does not contain any components currently known to the State of California to cause cancer, birth defects or reproductive harm at levels, which would be subject to Proposition 65.

16. OTHER INFORMATION

Abbreviations:

ND-	Not Determined
NA-	Not Applicable
SARA-	Superfund and Reauthorization Act
HMIS-	Hazard Material Information System
WHMIS-	Workplace Hazard Materials Information System
NTP-	National Toxicology Program
OSHA-	Occupational Health and Safety Administration
IARC-	International Agency for Research on Cancer
PROP 65-	California Safe Drinking Water and Toxic Enforcement Act Of 1986
EINECS-	European Inventory of Existing Commercial Chemical Substances

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.