

BIO BASIC INC.

160 TORBAY ROAD, MARKHAM ONTARIO L3R 1G6 CANADA
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MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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ADDRESS: 160 TORBAY ROAD, MARKHAM ONTARIO L3R 1G6 CANADA

DATE PREPARED: AUGUST 16, 2007

SECTION 1. PRODUCT DESCRIPTION

PRODUCT NAME: GTE BUFFER
PRODUCT CODE(S): GB8887
SIZE: 25 ML
CHEMICAL NAME: PRODUCT IS A MIXTURE
CAS NUMBER: NONE ASSIGNED TO THIS MIXTURE
FORMULA: SEE SECTION 2
SYNONYMS: GLUCOSE TRIS EDTA BUFFER

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENTS:
GLUCOSE (CAS# 50-99-7) .9%
TRIS (HYDROXYMETHYL) AMINOMETHANE (CAS# 77-86-1) 3.1%
ETHYLENEDIAMINETETRAACETIC ACID (EDTA)DISODIUM SALT (CAS# 139-33-3) .1%
TLV AND PEL UNITS: N/A

SECTION 3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: THIS PRODUCT IS NOT HAZARDOUS UNDER NORMAL USE.
POTENTIAL HEALTH EFFECTS:
EYES: MAY CAUSE IRRITATION.
SKIN: MAY CAUSE IRRITATION.
INGESTION: MAY CAUSE GASTROINTESTINAL DISCOMFORT.
INHALATION: MAY CAUSE IRRITATION TO RESPIRATORY TRACT.

SECTION 4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:
EYES - FLUSH WITH WATER FOR AT LEAST 15 MINUTES, RAISING AND LOWERING EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN - THOROUGHLY WASH EXPOSED AREA FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
INGESTION - IF SWALLOWED, IF CONSCIOUS, GIVE PLENTY OF WATER. IMMEDIATELY CALL A PHYSICIAN OR POISON CONTROL CENTER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION - REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION.

SECTION 5. FIREFIGHTING PROCEDURES

FLASH POINT(METHOD USED): NO INFORMATION AVAILABLE
NFPA RATING: NONE ASSIGNED
EXTINGUISHER MEDIA:

USE DRY CHEMICAL, CO2 OR APPROPRIATE FOAM.
FLAMMABLE LIMITS IN AIR % BY VOLUME: NO INFORMATION AVAILABLE
AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE
SPECIAL FIREFIGHTING PROCEDURES:
FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE EQUIPMENT AND NIOSH APPROVED
SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE EXPECTED

SECTION 6. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
VENTILATE AREA OF SPILL. ELIMINATE ALL SOURCES OF IGNITION.
REMOVE ALL NON-ESSENTIAL PERSONNEL FROM AREA. CLEAN-UP PERSONNEL SHOULD
WEAR PROPER PROTECTIVE EQUIPMENT AND CLOTHING. ABSORB MATERIAL WITH
SUITABLE ABSORBENT AND CONTAINERIZE FOR DISPOSAL.

SECTION 7. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: STORE TIGHTLY CLOSED AT
ROOM
TEMPERATURE.

SECTION 8. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION(SPECIFY TYPE):
A NIOSH/MSHA CHEMICAL CARTRIDGE RESPIRATOR SHOULD BE WORN IF PEL OR
TLV IS EXCEEDED.
VENTILATION:
LOCAL EXHAUST: YES
MECHANICAL(GENERAL): YES
SPECIAL: NO
OTHER: NO
PROTECTIVE GLOVES:
RUBBER, NEOPRENE, PVC, OR EQUIVALENT.
EYE PROTECTION:
SPLASH PROOF CHEMICAL SAFETY GOGGLES SHOULD BE WORN AT ALL TIMES.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
LAB COAT, EYE WASH, AND SAFETY SHOWER.

SECTION 9. PHYSICAL DATA

MOLECULAR WEIGHT: NO INFORMATION AVAILABLE
MELTING POINT: NO INFORMATION AVAILABLE
BOILING POINT: NO INFORMATION AVAILABLE
VAPOR PRESSURE: NO INFORMATION AVAILABLE
VAPOR DENSITY(AIR=1): NO INFORMATION AVAILABLE
SPECIFIC GRAVITY(H2O=1): NO INFORMATION AVAILABLE
PERCENT VOLATILE BY VOLUME: NO INFORMATION AVAILABLE
EVAPORATION RATE(H2O=1): NO INFORMATION AVAILABLE
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: COLORLESS LIQUID WITH NO ODOR

SECTION 10. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: NO INFORMATION AVAILABLE
INCOMPATIBILITY(MATERIALS TO AVOID): WATER REACTIVE MATERIALS
HAZARDOUS DECOMPOSITION PRODUCTS: NO INFORMATION AVAILABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11. TOXICITY DATA

TOXICITY DATA: GLUCOSE IVR-RBT LD50: 35G/KG
TRIS ORL-RAT LD50: 5900MG/KG

EDTA ORL-RAT LD50: 2000MG/KG

EFFECTS OF OVEREXPOSURE:

ACUTE: SEE SECTION 3

CHRONIC: EDTA DISODIUM SALT: MUTATION AND REPRODUCTIVE DATA CITED.

NO COMPONENT OF THIS MIXTURE IS LISTED AS CAUSING CANCER BY IARC, NTP, OR OSHA.

CONDITIONS AGGRAVATED BY OVEREXPOSURE: NO INFORMATION AVAILABLE

TARGET ORGANS: NO INFORMATION AVAILABLE

PRIMARY ROUTE(S) OF ENTRY: INGESTION, SKIN

SECTION 12. ECOLOGICAL DATA

EPA WASTE NUMBERS: NONE

SECTION 13. DISPOSAL INFORMATION

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,

STATE AND LOCAL REGULATIONS.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE.

SECTION 14. TRANSPORT INFORMATION

N/A

SECTION 15. REGULATORY INFORMATION

EPA TSCA STATUS: ON TSCA INVENTORY

HAZARD CATEGORY FOR SARA SECTION 311/312 REPORTING: ACUTE

SARA SEC. 313

SARA EHS CHEMICALS CERCLA RCRA

PRODUCT OR SEC. 302 NAME CHEMICAL SEC. 103 SEC.

COMPONENTS TPQ LIST CATEGORY RQ LBS.

261.33

GLUCOSE NO NO NO NO NO NO

TRIS NO NO NO NO NO NO

EDTA, DISODIUM SALT NO NO NO NO NO NO

SECTION 16 - OTHER INFORMATION

DISCLAIMER

FOR R&D USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

WARRANTY

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