

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

PRODUCT NAME 5' EndTag™ Kit
CATALOG NO. MB-9001

HAZARDOUS INGREDIENTS The reagents used in the EndTag Kit are made up of common laboratory buffers and pose no serious health problems when used with caution, however data are listed for Tris (hydroxyethyl) aminomethane and glycerol.

MATERIAL Tris (hydroxymethyl) aminomethane

% BY WEIGHT 2.13%

HAZARD DATA Toxicity data:

ori-rat	LD50 : 5900mg/kg
ivn-mus	LD50 : 1210mg/kg
ori-rbt	LD50 : 1000mg/kg

RTECS #: TY2900000
CAS#: 77-86-1

PHYSICAL DATA

APPEARANCE Colorless liquid	MELTING POINT n/a
SOLUBILITY IN WATER n/a	BOILING POINT n/a
SPECIFIC GRAVITY n/a	EVAPORATION RATE n/a

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT n/a **FLAMMABLE LIMITS IN AIR** n/a
EXTINGUISHING MEDIA Water, foam, carbon dioxide
SPECIAL FIREFIGHTING PROCEDURES Use respirator. Toxic gases can be evolved: carbon monoxide, carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS None

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE unknown
ACUTE EFFECTS OF OVEREXPOSURE May cause local discomfort if placed on skin, in eyes, ingested or inhaled.
EMERGENCY AND FIRST AID PROCEDURES Wash affected area thoroughly with water. Irrigate eyes for at least 15 min. If inhaled, remove to fresh air. Call a physician.
SKIN CONTACT May cause local discomfort
EYE CONTACT May be harmful
INHALATION May cause irritation
INGESTION Harmful if swallowed

REACTIVITY DATA

STABILITY Stable **MATERIALS TO AVOID** Strong oxidizers
CONDITIONS TO AVOID n/a
HAZARDOUS POLYMERIZATION Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide.

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SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Flush to sewer if allowed or collect on absorbent and dispose in approved land fill.
WASTE DISPOSAL METHOD Flush to sewer if allowed.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION n/a
VENTILATION Use only with adequate ventilation.
PROTECTIVE GLOVES NEEDED Yes
EYE PROTECTION NEEDED Yes

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Store in refrigerator.

The information contained in this Material Safety Data Sheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. Vector Laboratories Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet.

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1.) CHEMICAL IDENTIFICATION:

PRODUCT NAME 5' EndTag™ Kit
CATALOG NO. MB-9001

2.) COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL Glycerol
CAS #: 56-81-5

3.) TOXICOLOGICAL INFORMATION:

% BY WEIGHT 13.6%
HAZARD DATA Toxicity data: orl-rat LD50: 12600mg/kg
orl-pgp LD50: 7750mg/kg
scu-rat LD50: 100mg/kg

RTECS #: MA8050000

4.) TRANSPORT INFORMATION:

5.) PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE Colorless liquid **MELTING POINT** 17.8 deg C
SOLUBILITY IN WATER Miscible **BOILING POINT** 290 deg C
SPECIFIC GRAVITY 1.26 **EVAPORATION RATE** n/a

6.) FIRE FIGHTING MEASURES:

FLASH POINT 176 deg C **FLAMMABLE LIMITS IN AIR** n/a
EXTINGUISHING MEDIA Alcohol foam, carbon dioxide, dry chemical
SPECIAL FIREFIGHTING PROCEDURES Wear proper protective clothing and self contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS Toxic fumes may be emitted under fire conditions.

7.) HAZARDS IDENTIFICATION:

THRESHOLD LIMIT VALUE 10mg/m3
ACUTE EFFECTS OF OVEREXPOSURE Headache, nausea

8.) FIRST AID MEASURES:

EMERGENCY AND FIRST AID PROCEDURES Wash affected area thoroughly with water. Irrigate eyes for at least 15 min. If inhaled, remove to fresh air. Call a physician immediately.

9.) ACCIDENTAL RELEASE MEASURES

SKIN CONTACT May cause dermatitis
EYE CONTACT May cause irritation
INHALATION May cause irritation
INGESTION Harmful if swallowed

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CHEMICAL IDENTIFICATION (continued)

PRODUCT NAME 5' EndTag™ Kit
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10.) STABILITY AND REACTIVITY

STABILITY Stable
MATERIALS TO AVOID Strong oxidizers, Strong bases
HAZARDOUS POLYMERIZATION Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide

11.) DISPOSAL CONSIDERATIONS

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Flush to sewer if allowed or collect on absorbent and dispose in approved land fill.
WASTE DISPOSAL METHOD Flush to sewer if allowed or mix with a combustible solvent to be burned in a federal or state approved waste disposal chemical incinerator.

12.) EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION Approved organic vapor respirator
VENTILATION Use only with adequate ventilation.
PROTECTIVE GLOVES NEEDED Yes
EYE PROTECTION NEEDED Yes

13.) HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Store in a cool dry place. Hygroscopic

CAUTION: CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS HYDROGEN/ SODIUM PEROXIDE, CHLORINE, SODIUM HYPOCHLORITE, POTASSIUM CHLORATE OR POTASSIUM PERMANGANATE MAY PRODUCE EXPLOSION.

14.) OTHER INFORMATION:

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