

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

PRODUCT NAME Biotinylated Molecular Weight Markers
CATALOG NO. SP-1400

HAZARDOUS INGREDIENTS

MATERIAL Sodium Azide (NaN₃)

% BY WEIGHT 0.08%

HAZARD DATA Toxicity data: orl-hmn TDLo : 710ug/kg
orl-rat LD50 : 27mg/kg
ivn-mus LD50 : 19mg/kg
skn-rbt LD50 : 20mg/kg

RTECS #: VY8050000

CAS #: 26628-22-8

PHYSICAL DATA

APPEARANCE Colorless liquid

SOLUBILITY IN WATER n/a

SPECIFIC GRAVITY n/a

MELTING POINT n/a

BOILING POINT n/a

EVAPORATION RATE n/a

HAZARDOUS INGREDIENTS

MATERIAL 2-Mercaptoethanol (ME)

% BY WEIGHT 0.1%

HAZARD DATA Toxicity data: orl-rat LD50 : 300mg/kg
orl-mus LD50 : 345mg/kg
skn-gpg LD50 : 300mg/kg

RTECS #: KL5600000

CAS #: 60-24-2

PHYSICAL DATA

APPEARANCE Colorless liquid

SOLUBILITY IN WATER Soluble

SPECIFIC GRAVITY 1.117 (H₂O=1)

MELTING POINT n/a

BOILING POINT 157 C

EVAPORATION RATE n/a

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 73 C (ME)

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, nitrogen oxides, sulfur oxides.

UNUSUAL FIRE AND EXPLOSION HAZARDS Moderate when exposed to heat, flame, or oxidizers.

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HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 300ug/m³ (NaN₃), no available information at this time for 2-Mercaptoethanol.

ACUTE EFFECTS OF OVEREXPOSURE Vapor or mist irritate eyes, mucous membranes and respiratory tract. May cause stomach pains, vomiting, diarrhea, nausea, dizziness and headache.

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 irritation

EYE CONTACT May cause blindness

INHALATION May cause irritation

INGESTION Harmful if swallowed

REACTIVITY DATA

STABILITY Stable

MATERIALS TO AVOID Strong oxidizers,

inorganic nitrates, or halogenated hydrocarbons.

CONDITIONS TO AVOID Acidic pH, heat, sparks, or open flame.

HAZARDOUS POLYMERIZATION Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

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 Approved organic vapor respirator.

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.