

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

**PRODUCT NAME** VECTASTAIN® ABC Peroxidase Kits  
**CATALOG NO.** PK-4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007,  
4009, 4010

HAZARDOUS INGREDIENTS

**MATERIAL** Thimerosal  
**% BY WEIGHT** 0.05%  
**HAZARD DATA** Toxicity data: orl-rat LD:50 75mg/kg  
scu-rat LD:50 98mg/kg  
scu-musLD:50 66mg/kg

RTECS #: OV8400000  
CAS #: 54-64-8

**MATERIAL** Sodium Azide (PK-4000 does not contain Sodium Azide)  
**% 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

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, nitrogen oxides.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS** None

HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE** 10ug(Hg)/m3 (Thimerosal)  
300ug/m3 (Sodium Azide)  
**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 cause irritation  
**INHALATION** May cause irritation  
**INGESTION** Harmful if swallowed

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REACTIVITY DATA

**STABILITY** Stable  
**CONDITIONS TO AVOID**  
**HAZARDOUS POLYMERIZATION** Will not occur  
**HAZARDOUS DECOMPOSITION PRODUCTS** Carbon monoxide, carbon  
dioxide, nitrogen oxides, mercury.  
**MATERIALS TO AVOID** Strong oxidizers

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.