



Vector Laboratories, Inc.
30 Ingold Road
Burlingame, CA 94010
Tel: (650) 697-3600 Fax: (650) 697-0339

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

PRODUCT NAME Peroxidase Substrate Kit (2,2'-azinobis (3-ethylbenzthiazoline sulfonic acid)) (ABTS)
CATALOG NO. SK-4500

HAZARDOUS INGREDIENTS

MATERIAL (2-2'-azinobis(3-ethylbenzthiazoline sulfonic acid))

% BY WEIGHT 0.5

HAZARD DATA Toxicity data not available. USE CAUTION

RTECS #: DL7002500

CAS #: 30931-67-0

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, nitrogen oxides, sulfur oxides.

UNUSUAL FIRE AND EXPLOSION HAZARDS None

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE n/a

ACUTE EFFECTS OF OVEREXPOSURE May cause local discomfort if place 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

REACTIVITY DATA

STABILITY Stable

MATERIALS TO AVOID Strong oxidizers acids

CONDITIONS TO AVOID

HAZARDOUS POLYMERIZATION Will not occur

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

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IDENTIFICATION

PRODUCT NAME Peroxidase Substrate Kit (2,2'-azinobis (3-ethylbenzthiazoline sulfonic acid)) (ABTS)
CATALOG NO. SK-4500

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 or dispose according to federal, state, or local law.

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.

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IDENTIFICATION

PRODUCT NAME Peroxidase Substrate Kit (Hydrogen Peroxide)
CATALOG NO. SK-4500

HAZARDOUS INGREDIENTS

MATERIAL Hydrogen Peroxide

% BY WEIGHT 1.5

HAZARD DATA Toxicity data: skn-rat LD50 : 4060mg/kg
orl-mus LD50 : 2gm/kg

RTECS #: MXO900000

CAS #: 7722-84-1

PHYSICAL DATA

APPEARANCE Colorless liquid
SOLUBILITY IN WATER miscible
SPECIFIC GRAVITY 1.00
MELTING POINT n/a
BOILING POINT 152 C
EVAPORATION RATE n/a

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT n/a
FLAMMABLE LIMITS IN AIR n/a

EXTINGUISHING MEDIA Water

SPECIAL FIREFIGHTING PROCEDURES Use self-contained respirator and protective clothing. Avoid contact with skin.

UNUSUAL FIRE AND EXPLOSION HAZARDS Explosion may occur under fire conditions.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 1 ppm

ACUTE EFFECTS OF OVEREXPOSURE May cause minor to severe burns 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 be harmful

EYE CONTACT Harmful

INHALATION Harmful

INGESTION Harmful if swallowed

REACTIVITY DATA

STABILITY Unstable
MATERIALS TO AVOID Strong reducing agents, organic materials, metals

CONDITIONS TO AVOID Heat, sparks, or open flame. Avoid contamination with metals or dust that may cause rapid decomposition generating large quantities of oxygen.

HAZARDOUS POLYMERIZATION Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS Oxygen

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IDENTIFICATION

PRODUCT NAME Peroxidase Substrate Kit (Hydrogen Peroxide)
CATALOG NO. SK-4500

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 or dispose according to federal, state, or local law.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Approved organic 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.