



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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CHEMICAL IDENTIFICATION:

PRODUCT NAME ACCESSORY REAGENT KIT
CATALOG NO. SPK-1902

COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL sec-Butanol (s-BuOH) **% BY WEIGHT** 100%

TOXICOLOGICAL INFORMATION:

orl-rat LD50 : 6480mg/kg
ivn-mus LD50 : 764mg/kg

TRANSPORT INFORMATION:

RTECS # EQ1750000
CAS # 78-92-2

PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE Colorless liquid
SOLUBILITY IN WATER 8% solution
SPECIFIC GRAVITY 0.806
MELTING POINT -115 C
BOILING POINT 99.5 C
EVAPORATION RATE 12.5 mm

COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL Ethanol (EtOH) **% BY WEIGHT** 95%

TOXICOLOGICAL INFORMATION:

orl-hmn LDLo : 1400mg/kg
orl-mus LD50 : 7500mg/kg
ivn-rat LD50 : 1440mg/kg

TRANSPORT INFORMATION:

RTECS # KQ6300000
CAS # 64-17-5

PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE Colorless liquid
SOLUBILITY IN WATER Miscible
SPECIFIC GRAVITY 0.789
MELTING POINT -114 C
BOILING POINT 78.5 C
EVAPORATION RATE 40mm

COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL Tris (hydroxymethyl) aminomethane **% BY WEIGHT** 1.2%

TOXICOLOGICAL INFORMATION:

orl-rat LD50 : 5900mg/kg
ivn-mus LD50 : 1210mg/kg
skn-rbt LD50 : 20mg/kg

TRANSPORT INFORMATION:

RTECS # TY2900000
CAS # 77-86-1

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CHEMICAL IDENTIFICATION (continued)

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CATALOG NO. SPK-1902

COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL Ammonium Acetate **% BY WEIGHT** 77%

TOXICOLOGICAL INFORMATION:

i pr-rat LD50 : 632mg/kg

TRANSPORT INFORMATION:

RTECS # AF3675000
CAS # 631-61-8

COMPOSITION/INFORMATION ON INGREDIENTS:

MATERIAL Magnesium Chloride **% BY WEIGHT** 9.5%

TOXICOLOGICAL INFORMATION:

i pr-mus LD50 : 99mg/kg
ivn-mus LD50 : 14mg/kg
orl-rat LD50 : 2800mg/kg
i pr-rat LDLo : 225mg/kg

TRANSPORT INFORMATION:

RTECS # OM2800000
CAS # 7786-30-3

FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA Water, foam, carbon dioxide, or dry chemical powder.
SPECIAL FIREFIGHTING PROCEDURES Use respirator. Toxic gases can be evolved.
UNUSUAL FIRE AND EXPLOSION HAZARDS Very volatile flammable liquids. Container could explode under fire conditions.

HAZARDS IDENTIFICATION:

THRESHOLD LIMIT VALUE 300ug/m3 (NaN3)
100 ppm (s-BuOH)
1000 ppm (EtOH)

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

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.

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CHEMICAL IDENTIFICATION (continued)

PRODUCT NAME ACCESSORY REAGENT KIT

CATALOG NO. SPK-1902

ACCIDENTAL RELEASE MEASURES:

SKIN CONTACT May cause irritation

EYE CONTACT May cause blindness

INHALATION May cause irritation

INGESTION Harmful if swallowed

STABILITY AND REACTIVITY:

STABILITY Stable

MATERIALS TO AVOID Strong oxidizers, Acids, Halogens

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

HAZARDOUS POLYMERIZATION Will not occur

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

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.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY PROTECTION Approved organic vapor respirator.

VENTILATION Use only with adequate ventilation.

PROTECTIVE GLOVES NEEDED Yes

EYE PROTECTION NEEDED Yes

HANDLING AND STORAGE:

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

OTHER INFORMATION:

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.

ECOLOGICAL INFORMATION:

Data not yet available.

REGULATORY INFORMATION: