

M S D S***Material Safety Data Sheet***

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24 HOUR EMERGENCY
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Ethyl Alcohol, 50%, Denatured

SECTION 1 PRODUCT IDENTIFICATION

NAME: Ethyl Alcohol, 50%, Denatured
EKI PRODUCT CODE: 4090
SYNONYMS: N/I
CAS NO: Does not apply
FORMULA: Does not apply
REVISION DATE: 5 January 2007

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

WARNING. FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHHALED. MAY CAUSE IRRITATION. Keep away from heat, sparks and flame. Avoid contact with skin, eyes and clothing. Avoid breathing vapor. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO -----	OSHA PEL -----	ACGIH TLV -----
Ethanol/64-17-5	1000 ppm TWA	1000 ppm TWA
Methanol/67-56-1	200 ppm TWA	200 ppm TWA Skin 250 ppm STEL Skin
Isopropyl Alcohol 67-63-0	400 ppm TWA	200 ppm TWA 400 ppm STEL

Methanol, ~2.5%, is subject to the reporting requirements of SARA 313 and 40CFR372.

SECTION 3 PHYSICAL PROPERTIES

SOLUBILITY IN WATER: Miscible
VAPOR PRESSURE (mm Hg): N/E
SPECIFIC GRAVITY: N/E
EVAPORATION RATE: N/E
APPEARANCE AND ODOR: Clear colorless liquid. Odor of grain alcohol.

BOILING POINT (C): N/E
VAPOR DENSITY: N/E
MELTING POINT (C): N/E

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): N/E
AUTOIGNITION TEMPERATURE (C): N/E
FLAMMABLE LIMITS (%) N/E



EXTINGUISHING MEDIA: Water spray, dry chemical, "alcohol foam", CO₂. SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode. UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapor can flow along surfaces to distant ignition sources and flash back.

SECTION 5 REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat, sources of ignition.

MATERIALS TO AVOID: Strong oxidizers, silver salts, chlorides, alkali metals and many other substances.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

INHALATION: Causes respiratory tract irritation.

SKIN CONTACT: Causes irritation.

EYE CONTACT: Causes irritation.

SKIN ABSORPTION: N/I

INGESTION: May be fatal or cause blindness if swallowed.

CHRONIC: Causes drying and cracking of skin. May affect nervous system, liver, blood, reproductive system.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin or eye disorders, impaired liver or kidney function.

CARCINOGENICITY: None

FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Immediately wash with plenty of soap and water. Remove contaminated garments.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: If conscious, induce vomiting immediately as directed by medical personnel.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area and remove sources of ignition. Absorb spill with inert material and containerize for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed in an approved Flammable Liquids storage area.

SECTION 8 CONTROL MEASURES

VENTILATION: Local or general.

RESPIRATORY PROTECTION: If necessary, approved ORGANIC VAPOR respirator.

EYE PROTECTION: Chemical splash goggles and/or full face shield.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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