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MATERIAL SAFETY DATA SHEET



APPROVED BY US DEPT OF LABOR, ESSENTIALLY SIMILAR TO FORM OSHA174

SUPERIOR SOLVENTS AND CHEMICALS

400 West Regent Street

Indianapolis, IN 46225

EMERGENCY PHONE NUMBER 317-781-4400

TRADE NAME: Ethanol A2-190

Alcohol Denatured A2-190

I. PHYSICAL DATA

REC'D MAR 05 2007

Boiling Point (degF): 148
Specific Gravity (Water = 1): 0.803
Pounds/Gallon: 6.69
Vapor Pressure (mm Hg @ 20 deg C): 47.52
Vapor Density (Air = 1): >1
Solubility in Water (%): 99.12
Dry Time (Ether = 1): >1
% Volatile by Volume: 95
Appearance: White Water Liquid
Odor: Typical Solvent

II. HAZARDOUS INGREDIENTS

<u>MATERIAL</u>	<u>CAS #</u>	<u>VOL (%)</u>	<u>ACGIH (TWA)</u>	<u>OSHA (TWA)</u>
DENATURED ETHANOL	64-17-5	>29	1000	1000
METHANOL	67-56-1	>9	200	200

III FIRE & EXPLOSION HAZARD DATA

LOWER EXPLOSIVE LIMIT IN AIR- (% BY VOLUME): 1.2

UPPER EXPLOSIVE LIMIT IN AIR- (% BY VOLUME): 36.5

FLASH POINT (T.C.C. deg F): 54 (lowest flashing component)

EXTINGUISHING MEDIA: Carbon Dioxide, Alcohol Foam, or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: S.C.B.A. for fire fighting in enclosed areas. Water spray may be used to cool exposed containers and protect personnel. In advanced fires, maintain a safe distance from sealed containers.

UNUSUAL EXPLOSION AND FIRE PROCEDURES: FLAMMABLE LIQUID! Vapors may burn in the open and may explode if confined. Use in well vented areas away from heat, sparks and open flame. Keep container closed when not in use.

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IV. HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION - YES SKIN - YES INGESTION - YES

EFFECTS OF ACUTE OVEREXPOSURE: Material is an eye and skin irritant. Excessive vapor inhalation will lead to central nervous system depression. Harmful or fatal if swallowed.

CHRONIC OVEREXPOSURE: Material may defat the skin on repeated exposure leading to dermatitis.

CARCINOGENICITY: NTP: NO IARC: NO OSHA: NO
-THIS BLEND CONTAINS NO LISTED CARCINOGENS-

SIGNS & SYMPTOMS OF EXPOSURE: The signs of central nervous system depression begin with headache, dizziness, apparent intoxication, and progress through loss of consciousness.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin contact can aggravate existing dermatitis.

EMERGENCY & FIRST AID PROCEDURE: EYE CONTACT --rinse with water for 15 minutes. If irritation persists call a physician.

SKIN CONTACT --wash with plenty of soap and water. Wash contaminated clothing before reuse.

EXCESSIVE VAPOR --remove victim to fresh air and restore breathing if necessary. Call a physician if there are signs of breathing difficulties.

IF SWALLOWED POISONOUS - Call a physician IMMEDIATELY! Give water and induce vomiting by sticking finger down throat. Never give anything by mouth to an unconscious person.

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V. REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE:
CONDITIONS TO AVOID: Isolate from heat, sparks, and open flames.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon (CO, CO₂)

HAZARDOUS POLYMERIZATION: Will not occur.

VI. PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop spill at the source, dike the area and contain the flow, mop up or absorb, and place in a suitable container. Notify proper authorities if an RQ is involved.

WASTE DISPOSAL METHOD: As directed by local and federal pollution laws.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Avoid free fall of liquid, ground containers when pouring. Store and use below 120F and away from direct heat or sources of ignition.

VII. CONTROL MEASURES

RESPIRATORY PROTECTION: Organic cartridge type respirator if ventilation or other mechanical means cannot keep air below TLV.

VENTILATION: Local exhaust is preferable, but any mechanical means that will keep vapors below limits is acceptable.

PROTECTIVE GLOVES: Recommended--must not dissolve in solvents.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical goggles and apron are recommended if splashing is possible. An eye wash and safety shower should be available.

WORK/HYGIENIC PRACTICES: Avoid breathing vapor or spray mist. Wash hands thoroughly after contact and before breaks or meals.

VIII. L313 LISTED MATERIALS

As per the requirements of 40 CFR 372.45, the following components of this blend are listed in Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986.

<u>MATERIAL</u>	<u>CAS #</u>	<u>MAXIMUM % BY WT</u>
METHANOL	67-56-1	10
METHYL ISOBUTYL KETONE	108-10-1	10

The act also requires that this notice accompany the MSDS in all redistributions and not be detached or omitted from future copies.

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