

## MATERIAL SAFETY DATA SHEET

### CHEMICAL MANUFACTURER

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### SECTION I - PRODUCT

PRODUCT NAME: ETHANOL SDA-1 200 PROOF

DATE OF PREPARATION: 06/09/08

HMIS RATING: HEALTH 1  
FLAMMABILITY 3  
REACTIVITY 0

EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

### SECTION II - HAZARDOUS INGREDIENTS

PRODUCT NAME	CAS #	VAPOR PRESSURE (mm Hg)	TLV	UNITS
CHEMICAL NAME			PEL	UNITS
ETHANOL (95.24%)	64-17-5	43.9	1000	PPM
METHANOL (3.81%)	67-56-1	96.0	200	PPM
METHYL ISOBUTYL KETONE (0.95%) (TLV: 50 PPM) (PEL: 100 PPM)	108-10-1	15.0	200	PPM

### SECTION III - PHYSICAL DATA

BOILING RANGE: 148 - 176 DEG F  
VAPOR DENSITY: HEAVIER THAN AIR  
EVAPORATION RATE: SLOWER THAN ETHER  
PERCENT VOLATILE BY VOLUME: 99%  
WEIGHT/GALLON: 6.61000 LBS/GAL

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARD CLASSIFICATION OSHA: FLAMMABLE LIQUID-CLASS IB

DOT: 3

FLASH POINT (TCC): > 54 DEG F

LOWER EXPLOSION LIMIT % BY VOLUME (IN AIR): > 3.3

EXTINGUISHING MEDIA: Carbon dioxide. Dry chemical. Alcohol-type foam.  
Water spray.

SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus.  
Wear full protective clothing. Water spray (fog) may reduce intensity of flames.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors form from this product  
and may settle in low places, travel along the ground, or move by air currents to be  
ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment,  
static discharges, or other ignition sources at locations distant from handling point.

Product contains alcohol, therefore flames might be difficult to see because they are  
virtually colorless. Can react vigorously with strong oxidizing agents.

### SECTION V - HEALTH HAZARD DATA

#### EFFECTS OF OVEREXPOSURE

##### INGESTION:

Nausea. Drowsiness. Headache. Dizziness. Incoordination. Loss of consciousness.  
Difficulty with speech. Central nervous system depression. Death. Blindness.

##### SKIN ABSORPTION:

Possible systemic effects.

##### INHALATION:

Narcosis. Dizziness. Nausea. Drowsiness. Loss of coordination. Visual impairment.  
Irritation. Respiratory failure.

##### SKIN CONTACT:

Irritation. Chapping. Dermatitis. Erythema. Scaling.

##### EYE CONTACT:

Irritation.

##### CHRONIC EFFECTS OF OVEREXPOSURE:

Toxic effects of methanol are accumulative and affect the nervous system, especially  
the optic nerve. These symptoms may linger for several days after overexposures.

##### OTHER HEALTH HAZARDS:

None currently known.

##### PRIMARY ROUTE(S) OF ENTRY:

Ingestion. Skin absorption. Inhalation. Eye contact.

##### EMERGENCY AND FIRST AID PROCEDURES

##### INGESTION:

If swallowed, induce vomiting immediately by giving two glasses of water and sticking  
finger down throat. Never give anything by mouth to an unconscious person. Call a  
physician. Give plenty of water or, if available, milk to drink.

##### SKIN:

Immediately wash skin with soap and plenty of water.  
Remove and wash contaminated clothing promptly. Call a physician.

##### INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably  
mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

##### EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
Call a physician.

##### NOTES TO PHYSICIAN:

None.

## SECTION VI - REACTIVITY DATA

### STABILITY:

Stable.

### CONDITIONS TO AVOID:

Heat. Ignition sources. Fire.

### INCOMPATIBILITY:

Sulfuric acid. Strong oxidizing agents. Nitrates. Perchlorates.

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### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide. Carbon dioxide. Toxic vapors. Formaldehyde.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### CONDITIONS TO AVOID:

None known.

## SECTION VII - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contact local authorities.

Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards.

Collect large spills for disposal. Flush small spills with water. Soak up with sawdust, sand, oil dry, or other absorbent material.

### WASTE DISPOSAL:

Reclamation in accordance with all federal, state, and local regulations. Incineration in accordance with all federal, state, and local regulations.

## SECTION VIII - SAFE HANDLING AND USE INFORMATION

### RESPIRATORY PROTECTION:

If vapors are present, use a MESA or NIOSH approved respirator for organic vapors, fresh air breathing apparatus, or a self contained breathing apparatus.

### VENTILATION:

Keep this product in closed equipment.

Special, local ventilation is needed at points where vapors or mists are expected to

escape to the workplace air.

Use in well-ventilated areas.

### PROTECTIVE GLOVES:

Consult the glove manufacturer for the most appropriate glove material.

### EYE PROTECTION:

Chemical safety goggles.

### OTHER PROTECTIVE EQUIPMENT:

Eye bath and safety shower.

Wear protective clothing to prevent repeated or prolonged contact.

## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DANGER! May be fatal if swallowed. Cannot be made nonpoisonous. Causes eye irritation. May cause skin irritation. Flammable.

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Keep away from heat, sparks, and flame.

Wash thoroughly after handling. Keep container closed.

Avoid prolonged or repeated contact with skin. Store in cool, dry, ventilated area.

Equipment and containers should be bonded and grounded when transferring or using material.

May cause blindness if swallowed. Use explosion-proof electrical fixtures.

### OTHER PRECAUTIONS:

None.

### Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent by Weight
67-56-1	METHYL ALCOHOL	3.8%

This information must be included in all MSDSs that are copied and distributed for this material.