

E M SCIENCE, A DIV OF E M INDUSTRIES INC. -- ETHYL ALCOHOL, DENATURED ALCOHOL --  
6550-01-316-7303

===== Product Identification =====

Product ID:ETHYL ALCOHOL, DENATURED ALCOHOL

MSDS Date:08/28/1990

FSC:6550

NIIN:01-316-7303

MSDS Number: BLFJH

=== Responsible Party ===

Company Name:E M SCIENCE, A DIV OF E M INDUSTRIES INC.

Address:111 WOODCREST RD

City:CHERRY HILL

State:NJ

ZIP:08034-0395

Country:US

Info Phone Num:609-354-9200 FAX: 609-423-4389

Emergency Phone Num:609-354-9200 OR 800-424-9300

CAGE:EO379

=== Contractor Identification ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:480 DEMOCRAT ROAD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:800-222-0342/609-423-6300

CAGE:63612

Company Name:E M SCIENCE, A DIV OF E M INDUSTRIES INC.

Address:111 WOODCREST RD

Box:70

City:CHERRY HILL

State:NJ

ZIP:08034-0395

Country:US

Phone:609-354-9200 FAX: 609-423-4389

CAGE:EO37

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 ===== Composition/Information on Ingredients =====  
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Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 90%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:S,200PPM/250STEL

ACGIH TLV:S,200PPM/250STEL; 93

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA III)

CAS:67-63-0

RTECS #:NT8050000

Fraction by Wt: 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:400 PPM/500 STEL

ACGIH TLV:400 PPM/500STEL;9192

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 ===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CAN BE FATAL OR CAUSE BLINDNESS IF SWALLOWED IN QUANTITY. CHRONIC OVEREXPOSURE CAN CAUSE DAMAGE TO GASTROINTESTINAL TRACT, LIVER, KIDNEYS AND CARDIOVASCULAR SYSTEMS.

PROLONGED CONTACT CAN CAUSE IRRITATION TO SKIN AND EYES.

Effects of Overexposure:CAUSES HEADACHE, NAUSEA, DIZZINESS, NARCOSIS.

Medical Cond Aggravated by Exposure:KIDNEY, LIVER, HEART AND GI CONDITIONS.

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 ===== First Aid Measures =====  
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First Aid:GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MIN.

INHALATION: REMOVE TO

FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING

IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL.

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===== Fire Fighting Measures =====

Flash Point Method:CC

Flash Point:54.0F,12.2C

Lower Limits:3.3

Upper Limits:19

Extinguishing Media:"ALCOHOL" FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTI

VE CLOTHING.

Unusual Fire/Explosion Hazard:VAPOR CAN TRAVEL DISTANCES TO IGNITION SOURCE AND FLASH BACK.

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===== Accidental Release Measures =====

Spill Release Procedures:DIKE SPILL; TAKE UP WITH ABSORBENT.

CONTAINERIZE FOR PROPER DISPOSAL.

Neutralizing Agent:EM SCIENCE SPELL-X NEUTRALIZER AND ADSORBENT AGENTS ARE RECOMMENDED.

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===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER CLOSED. STOR

E IN A

COOL, DRY AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS. DO NOT BREATH VAPORS. GROUND ALL EQUIPMENT.

Other Precautions:RETAINED RESIDUE MAY MAKE EMPTY CONTAINERS HAZARDOUS, USE CAUTION.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

Ventilation:GENERAL MECHANICAL VENTILATION (EXPLOSION PROOF)

Protective Gloves:NEOPRENE, NITRILE

Eye

Protection:SAFETY GLASSES  
Other Protective Equipment:EYE WASH STATION  
Work Hygienic Practices:NORMAL PRACTICES  
Supplemental Safety and Health  
NONE

===== Physical/Chemical Properties =====

HCC:F2  
Boiling Pt:=77.2C, 171.F  
B.P. Text:171F,77C  
Melt/Freeze Pt:=-143.9C, -227.F  
M.P/F.P Text:-227F,-144C  
Vapor Pres:48 MM HG  
Vapor Density:1.6  
Spec Gravity:0.79  
Evaporation Rate & Reference:3.1 (N-BUTYL ACETATE=1)  
Solubility in Water:MISCIBLE  
Appearance and Odor:COLORLESS LI  
QUID, CHARACTERISTIC ODOR.  
Percent Volatiles by Volume:>99

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS  
Stability Condition to Avoid:HEAT AND CONTACT WITH IGNITION SOURCES.  
Hazardous Decomposition Products:OXIDES OF CARBON

===== Disposal Considerations =====

Waste Disposal Methods:TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT  
LOCAL, STATE AND FEDERAL REGULATIONS.

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