

ASHLAND CHEMICAL -- DENATURED ALCOHOL 70% - ALCOHOL, DENATURED  
MATERIAL SAFETY DATA SHEET  
NSN: 6810007822686  
Manufacturer's CAGE: 34897  
Part No. Indicator: A  
Part Number/Trade Name: DENATURED ALCOHOL 70%

General Information

Item Name: ALCOHOL, DENATURED  
Company's Name: ASHLAND CHEMICAL COMPANY  
Company's P. O. Box: 2219  
Company's City: COLUMBUS  
Company's State: OH  
Company's Country: US  
Company's Zip Code: 43216-2219  
Company's Emerg Ph #: 614-276-6143  
Company's Info Ph #: 614-276-6143  
Record No. For Safety Entry: 007  
Tot Safety Entries This Stk#: 014  
Status: SE  
Date MSDS Prepared: 12SEP91  
Safety Data Review Date: 11APR97  
Supply Item Manager: 75  
MSDS Serial Number: BSCWY  
Specification Number: 0E00760  
Spec Type, Grade, Class: GR 4  
Hazard Characteristic Code: F5  
Unit Of Issue: GL  
Unit Of Issue Container Qty: 1 GAL.  
Type Of Container: CAN

Ingredients/Identity Information

Proprietary: NO  
Ingredient: METHYL ALCOHOL (METHANOL) (SARA III)  
Ingredient Sequence Number: 01  
Percent: 3  
NIOSH (RTECS) Number: PC1400000  
CAS Number: 67-56-1  
OSHA PEL: S,200PPM/250STEL  
ACGIH TLV: S,200PPM/250STEL; 93  
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO  
Ingredient: ETHYL ALCOHOL (ETHANOL)  
Ingredient Sequence Number: 02  
Percent: >60  
NIOSH (RTECS) Number: KQ6300000  
CAS Number: 64-17-5  
OSHA PEL: 1000 PPM  
ACGIH TLV: 1000 PPM; 9293  
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO  
Ingredient: METHYL ISOBUTYL KETONE (SARA III)  
Ingredient Sequence Number: 03  
Percent: 1  
NIOSH (RTECS) Number: SA9275000  
CAS Number: 108-10-1

OSHA PEL: 50 PPM/75 STEL  
ACGIH TLV: 50 PPM/75 STEL; 9293  
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: NONE SPECIFIED BY MANUFACTURER.  
Boiling Point: 147F,64C  
Melting Point: N/A  
Vapor Pressure (MM Hg/70 F): 97.68  
Vapor Density (Air=1): >1 (AIR=1)  
Specific Gravity: <1  
Evaporation Rate And Ref: SLOWER THAN ETHER  
Percent Volatiles By Volume: 100  
pH: N/A

Fire and Explosion Hazard Data

Flash Point: 55.0F,12.8C  
Flash Point Method: TCC  
Lower Explosive Limit: 1.4  
Extinguishing Media: ALCOHOL FOAM OR CARBON DIOXIDE OR DRY CHEMICAL  
Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE.  
Unusual Fire And Expl Hazrds: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS OR OTHER FLAMES.

Reactivity Data

Stability: YES  
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
Materials To Avoid: STRONG OXIDIZING AGENTS  
Hazardous Decomp Products: CARBON DIOXIDE, CARBON MONOXIDE, VARIOUS HYDROCARBONS  
Conditions To Avoid (Poly): NONE SPECIFIED BY MANUFACTURER.

Health Hazard Data

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: EYES: CAN CAUSE MODERATE IRRITATION, REDNESS, TEARING. SKIN: CAN CAUSE SLIGHT IRRITATION. INHALATION: CAN CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NASUEA. INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, DIARRHEA.  
Carcinogenicity - IARC: YES  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: PER MANUFACTURER, IRAC HAS DETERMINED THAT CHRONIC EXPOSURE TO ETHANOL CONSUMPTION OVER TIME CAN CAUSE CANCER.  
Signs/Symptoms Of Overexp: OVEREXPOSURE TO THIS MATERIAL HAS BEEN SUGGESTED AS A CAUSE IN HUMANS OF LIVER ABNORMALITIES, EYE DAMAGE.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
Emergency/First Aid Proc: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION: IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: ABSORB LIQUID ON VERMICULITE, FLOOR  
ABSORBENT OR OTHER ABSORBENT MATERIAL. STOP SPILL AT SOURCE. PREVENT FROM  
ENTERING DRAINS, SEWERS, STREAMS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND  
FEDERAL REGULATIONS.

Precautions-Handling/Storing: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS  
WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES.

Other Precautions: SKIN ABSORPTION MAY CONTRIBUTE TO THE OVERALL  
ABSORPTION OF THIS MATERIAL. APPROPRIATE MEASURES SHOULD BE TAKEN TO  
PREVENT ABSORPTION SO THAT THE TLV AND/OR PEL ARE NOT INVALIDATED.

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Control Measures

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Respiratory Protection: A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS  
ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST)  
VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: NEOPRENE, NITRILE RUBBER

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: WEAR IMPERVIOUS CLOTHING AND BOOTS TO PREVENT  
PROLONGED SKIN CONTACT.

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER EACH USE OF THIS  
PRODUCT.

Suppl. Safety & Health Data: NONE

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Transportation Data

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Trans Data Review Date: 97132

DOT PSN Code: EGH

DOT Symbol: D

DOT Proper Shipping Name: DENATURED ALCOHOL

DOT Class: 3

DOT ID Number: NA1986

DOT Pack Group: I

DOT Label: FLAMMABLE LIQUID, POISON

IMO PSN Code: ANB

IMO Proper Shipping Name: ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. o

IMO Regulations Page Number: 3176

IMO UN Number: 1986

IMO UN Class: 3.2

IMO Subsidiary Risk Label: TOXIC

IATA PSN Code: ARM

IATA UN ID Number: 1986

IATA Proper Shipping Name: ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. \*

IATA UN Class: 3

IATA Subsidiary Risk Class: 6.1

IATA Label: FLAMMABLE LIQUID & TOXIC

AFI PSN Code: ARM

AFI Symbols: 0

AFI Prop. Shipping Name: ALCOHOLS, TOXIC, N.O.S.

AFI Class: 3

AFI ID Number: UN1986

AFI Pack Group: II

AFI Label: 6.1

AFI Basic Pac Ref: A7.3

N.O.S. Shipping Name: METHYL ALCOHOL, ETHANOL, METHYL ISOBUTYL KETONE

Additional Trans Data: DENATURED ALCOHOL 70%

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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 26NOV93  
Label Status: F  
Common Name: DENATURED ALCOHOL 70%  
Signal Word: WARNING!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-Moderate: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: EYES: CAN CAUSE MODERATE IRRITATION, REDNESS,  
TEARING. SKIN: CAN CAUSE SLIGHT IRRITATION. INHALATION: CAN CAUSE NASAL AND  
RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING  
DIZZINESS, WEAKNESS, FATIGUE, NASUEA. INGESTION: CAN CAUSE GASTROINTESTINAL  
IRRITATION, VOMITING, DIARRHEA. CONTAINERS OF THIS MATERIAL MAY BE  
HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: ASHLAND CHEMICAL COMPANY  
Label P.O. Box: 2219  
Label City: COLUMBUS  
Label State: OH  
Label Zip Code: 43216-2219  
Label Country: US  
Label Emergency Number: 614-276-6143