

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%

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General Information
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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

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Ingredients/Identity Information
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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.

Precautions for Safe Handling and Use

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.

Control Measures

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

Transportation Data

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