

ASHLAND CHEMICAL COMPANY -- GLYCOL ETHER DM FUEL ADDITIVE GRADE JP5 --
6850-01-089-5514

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

Product ID:GLYCOL ETHER DM FUEL ADDITIVE GRADE JP5

MSDS Date:03/01/1997

FSC:6850

NIIN:01-089-5514

MSDS Number: BRKTV

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL COMPANY

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Info Phone Num:614-790-3333

Emergency

Phone Num:800-274-5236 OR 800-ASHLAND

CAGE:34897

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

Company Name:ASHLAND CHEMICAL CO

Address:5200 PAUL BLAZEL MEMORIAL PARKWAY

Box:City:DUBLIN

State:OH

ZIP:43017

Country:US

Phone:614-889-4505

CAGE:5A188

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

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hone:409-756-1065
CAGE:4N760

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Composition/Information on Ingredients
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Ingred Name:DIETHYLENE GLYCOL MONOMETHYL ETHER OR 2-(2-METHOXYETHOXY)
ETHANOL
CAS:111-77-3
RTECS #:KL6125000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
He
alth Hazards Acute and Chronic:ACUTE: CONTACT MAY CAUSE SKIN & EYE
IRRITATION. INHALATION MAY CAUSE RESPIRATORY IRRITATION, CNS
DEPRESSION. SINGLE DOSE INGESTION TOXICITY IS LOW; SWALLOWING LARGE
AMOUNTS MAY BE HARMFUL. CHRONIC: PR OLONGED OR REPEATED EXPOSURE
MAY CAUSE DISORDERS OF THE LIVER, TESTES, KIDNEYS.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:INGESTED-
NO DATA FOUND, MAY BE HARMFUL IN
LARGE DOSES. EYES-STINGING, TEARING, REDNESS. SKIN-REDNESS,
BURNING. INHALED-IRRITATION OF NOSE/THROAT/RESPIRATORY TRACT,
DIZZINESS, DROWSINESS, WEAKNESS, FA TIGUE, NAUSEA, HEADACE,
UNCONSCIOUSNESS,CONFUSION, DEATH.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures
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First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR
15 MINUTES, LIFT LID
S. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH
MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN OR
ARTIFICI AL RESPIRATION AS NEEDED. INGESTED-NOTHING BY MOUTH IF
DROWSY OR UNCONSCIOUS. IF CONSCIOUS, GIVE SYRUP OF IPECAC OR STICK
FINGERS DOWN THROAT. DO NOT LEAVE PERSON UNATTENDED.

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Fire Fighting Measures
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Flash Point Method:SCC
Flash Point:197F,92C
Lower Limits:1.4
Upper Limits:22.7
Extinguishing Media:CARBON DIOXIDE, DRY

CHEMICAL, ALCOHOL FOAM.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. USE WATER TO COOL FIRE EXPOSED CONTAINERS & FOR DILUTION.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL ALONG THE GOUND OR BE MOVED BY VENTILATION & IGNITED BY SOURCES OF IGNITION.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. WEAR PROPER PPE
RSOAL PROTECTIVE GEAR. STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, WATERWAYS. ABSORB SPILL WITH VERMICULITE OR OTHER ABSORBENT AND TRAN SFER TO CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM STRONG OXIDIZING AGENTS AND SOURCES OF IGNITION.

Other Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS W HEN

EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES, ALL HAZARD PRECAUTIONS GIVEN ON THIS MSDS MUST BE OBSERVED. BOND & GROUND CONTAINERS DURING TRANSFER OPERATIONS.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH APPROPRIATE CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR

1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:IMPERVIOUS-NITRILE.

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:WEAR IMPERVIOUS CLOTHES TO PREVENT PROLONGED/REPEATED SKIN CONTACT. DLA-HMIS-EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

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

HCC:V4

Boiling Pt:B.P. Text:378F,192C

Vapor Pres:0.1

Vapor Density:4.15

Spec Gravity:1.025

Evaporation Rate & Reference:0.02 (N-BUTYL ACETATE=1)

Appearance and Odor:CLEAR, COLORLESS, HOMOGENOUS LIQUID; NO ODOR DATA.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE AND CARBON DIOXIDE.

Conditions to Avoid Polymerization:PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

===== Regulatory Information =====

SARA Title III

Information:ON SEC 311/312 LISTED AS A DELAYED AND A FIRE HAZARD.

Federal Regulatory Information:LISTED ON TSCA. NOT LISTED AS "RQ" ON 40 CFR 302.4 (A)

State Regulatory Information:NOT LISTED WITH CALIFORNIA PROPOSITION 65. NEW JERSEY AND PENNSYLVANIA LABEL INFO: DIETHYLENE GLYCOL MONOMETHYL ETHER, 111-77-3.

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