

ASHLAND DISTRIBUTION CO. & ASHLAND SPECIALTY CHEMICAL CO -- METHANOL TECHNICAL --
6810-00-275-6010

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

Product ID:METHANOL TECHNICAL

MSDS Date:01/26/1998

FSC:6810

NIIN:00-275-6010

Status Code:A

MSDS Number: CKLVJ

=== Responsible Party ===

Company Name:ASHLAND DISTRIBUTION CO. & ASHLAND SPECIALTY CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info P

hone Num:614-790-3333

Emergency Phone Num:800-274-5263

Resp. Party Other MSDS Num.:999.0001447-007.007

CAGE:81355

=== Contractor Identification ===

Company Name:ASHLAND INC

Address:1409 WINCHESTER AVE

Box:391

City:ASHLAND

State:KY

ZIP:41114

Country:US

Phone:800-622-6846

CAGE:81355

Company Name:DALDEN CORP

Address:2923 SATURN ST SUITE C

Box:City:BREA

State:CA

ZIP:92821

Country:US

Phone:714-985-0117

Contract Num:SP0450-00-M-SB85

CAGE:0EV88

===== Composition/Information on Ingredients ==

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Ingred Name:METHYL ALCOHOL

CAS:67-56-1

RTECS #:PC1400000

= Wt:100.

OSHA PEL:260 MG/M3;200 PPM

ACGIH TLV:262 MG/M3;200 PPM

ACGIH STEL:328 MG/M3;250 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:EYE: MAY CAUSE MILD EYE IRRITATION.

SYMPTOMS INCLUDE STINGING, TEARING & R

EDNESS. SKIN: MAY CAUSE MILD

SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN.

SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING & CRACKING OF SKIN,

SKIN BURNS. PASSAGE OF THIS MATERIAL INTO THE BODY THROUGH THE SKIN

IS POSSIBLE & MAY ADD TO TOXIC EFFECTS FROM BREATHING OR

SWALLOWING. SWALLOWING: SWALLOWING THIS MATERIAL MAY BE HARMFUL.

INHALATION: BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL

AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT

LIKELY TO

CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL.

Explanation of Carcinogenicity:NO DATA.

Effects of Overexposure:STOMACH UPSET (NAUSEA, VOMITING, DIARRHEA),

IRRITATION (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS SYSTEM

DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA,

HEADACHE, UNCONSCIOUSNESS), LEG CRAMPS, PAIN IN BACK AND LOWER

ABDOMEN, BLURRED VISION, SHORTNESS OF BREATH, CYANOSIS (BLUISH

SKIN), VISUAL IMPAIRMENT (INCLUDING BLINDNESS), COMA, DEATH.

Medical Cond Aggravated by Exposure:EXPOSURE TO THIS MATERIAL MAY

AGGRAVATE ANY PREEXISTING CONDITION SENSITIVE TO A DECREASE IN

AVAILABLE OXYGEN, SUCH AS CHRONIC LUNG DISEASE, CORONARY ARTERY

DISEASE OR ANEMIAS.

===== First Aid Measures =====

First Aid:EYES: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE

AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER WHILE HOLDING

EYELIDS APART. IF SYMPTOMS PERSIST OR OTHER

E IS ANY VISUAL

DIFFICULTY, SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. SWALLOWING: SEEK MEDICAL ATTENTION: IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER.

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

Flash Point Method:TCC

Flash Point:=-12.2C, 54.F

Autoignition Temp:=-385.C, 725.F

Lower Limits:6.0

Upper Limits:36.0

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

Fire Fighting Procedures:WATER MAY BE INEFFECTIVE. WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. EXCLUDE PERSONS W/O PROTECTIVE EQUIPMENT FROM SPILL AREA. STOP SPILL/LEAK.

KEEP OUT OF DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. NOTIFY AUTHORITIES IF RUNOFF OCCURS. ABSORB ON VERMICULITE OR OTHER ABSORBENT MATERIAL. OR PUMP OR VACUUM TO CLEAN CONTAINERS FOR RECOVERY. TRANSFER CONTAMINATED ABSORBENT, SOIL, ETC TO CONTAINER FOR DISPOSAL.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY

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

Handl

ing and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES(VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

Other Precautions:ALL FIVE-GALLON PAILS AND LARGER METAL CONTAINERS, INCLUDING TANK CARS AND TANK TRUCKS, SHOULD BE GROUNDED/BONDED DURING TRANSFER OF PRODUCT. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATUR PROCESSES S HOULD BE THOROUGHLY EVALUATE D TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED. A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

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

Protective Gloves:WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

Eye Protection:CHEMICAL SPASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED.

Other Protective Equipment:TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS. OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. CONSULT YOUR S AFETY REPRESENTATIVE.

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY
Supplemental Safety and Health
NO DATA PROVIDED BY RESPONSIBLE PARTY

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

HCC:F2

Boiling Pt:=-97.6C, -144.F

Vapor Pres:97.680 MMHG @ 68F

Vapor Density:1.11

Spec Gravity:0.795 @ 68F

VOC Pounds/Gallon:795

pH:NO DATA

Viscosity:0.6 CPS

Evaporation Rate & Reference:2.10 (N-BUTYL ACETATE)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, M

OBILE LIQUIDNEAT, COLORLESS, MILD ALCOHOL
ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH: REACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM,
STRONG ACIDS, STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NO DATA PROVIDED BY RESPONSIBLE PARTY

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

Conditions to Avoid Polymerization:WILL NOT
OCCUR.

===== Toxicological Information =====

Toxicological Information:NO DATA. TARGET ORGANS EFFECTS: EXPOSURE TO
LETHAL CONCENTRATIONS OF METHANOL HAS BEEN SHOWN TO CAUSE DAMAGE TO
ORGANS INCLUDING LIVER, KIDNEYS, PANCREAS, HEART, LUNGS AND BRAIN.
ALTHOUGH THIS RARELY OCCURS, SURVIVORS OF SEVERE INTOXICATION MAY
SUFFER FROM PERMANENT NEUROLOGICAL DAMAGE. OVEREXPOSURE TO THIS
MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A COUSE OF THE

FOLLOWING EFFECTS IN LABO RATORY ANIMALS: CENTRAL NERVOUS SYSTEM
DAMAGE, OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN
SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: VISUAL
IMPAIRMENT.

===== Ecological Information =====

Ecological:NO DATA.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE
LOCAL, STATE AND FEDERAL REGULATIONS. FOR AS
SISTANCE WITH YOLUR

WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE
STREAM REDUCTION, CONTACT ASHLAND DISTRIBUTION COMPANY, IC&S
ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

===== MSDS Transport Information =====

Transport Information:US DOT: DESCRIPTION: METHANOL, 3, UN1230, II. RQ
(REPORTABLE QUANTITY) (49 CFR 172.101): 5000 LBS, METHANOL.

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

SARA Title III Inf

ormation:SARA 313 COMPONENTS - 40 CFR 372.65:

METHANOL, 67-56-1, 100%. SECTION 311/312 HAZARD CLASS - 40 CFR 370.2: IMMEDIATE-(X); DELAYED -(X); FIRE-(X); REACTIVE-(); SUDDEN RELEASE OF PRESSURE-().

Federal Regulatory Information:CERCLA RQ - 40 CFR 302.4(A): METHYL ALCOHOL, 5000 LBS. EPA ACCIDENTAL RELEASE PREVENTION - 40 CFR 68: NONE LISTED. OSHA PROCESS SAFETY MANAGEMENT: 29 CFR 1910: NONE LISTED.

State Regulatory Information:CALIFORNIA PROPOSITION 65: NONE. NEW JER

SEY RTK: METHYL ALCOHOL, 67-65-1; PENNSYLVANIA RTK: METHYL ALCOHOL, 67-65-1.

===== Other Information =====

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