

HOECHST CELANESE CHEM GROUP -- METHANOL -- 6850-01-030-0414

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

Product ID:METHANOL

MSDS Date:12/21/1990

FSC:6850

NIIN:01-030-0414

MSDS Number: BMSQN

=== Responsible Party ===

Company Name:HOECHST CELANESE CHEM GROUP

Box:589320

City:DALLAS

State:TX

ZIP:75356-9320

Country:US

Info Phone Num:214-689-4000

Emergency Phone Num:800-424-9300 (CHEMTREC)

CAGE:10001

=== Contrac

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

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

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 85%

OSHA PEL:S,200PPM/250STEL

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

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SUPP DATA: ABNORMALITIES, A 10% SOLN OF ETHANOL IN 5%

AQUEOUS DEXTRO

SE, ADMIN IV, IS SAFE, EFFECTIVE ANTIDOTE.
RTECS #:9999999ZZ

Ingred Name:OTHER PREC: W/EYES, SKIN & CLTHG. WASH THORO W/SOAP & H*2O
AFTER HNDLG. WASH CONTAM CLTHG THORO BEFORE RE-USE. (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3: DISCARD CONTAMINATED LEATHER CLOTHING.
RTECS #:9999999ZZ

Ingred Name:RESP PROT: ANY NIOSH/MSHA APPRVD SCBA W/FULL FACEPIECE. ANY
NIOSH/MSHA APPRVD SUPP-AIR RESP W/FULL FACEPIECE. ANY(ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:NIOSH/MSHA APPRVD SUPP-AIR RESP W
/TIGHT-FITTING
FACEPIECE OPER IN CONT FLOW MODE.25,000 PPM-ANY NIOSH/MSHA (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6: APPRVD SUPP-AIR RESP W/FULL FACEPIECE & OPER IN
PRESS-DEMAND/OTHER POS PRESS MODE. ESCAPE-ANY NIOSH/MSHA (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7: APPROVED APPROPRIATE ESCAPE-TYPE SCBA.
RTECS #:9999999ZZ

Ingred Name:SPILL PROC: AREA SPARINGLY W/H*2O OR USE ABSORB. AVOID
RUNOFF INTO STORM SEWERS & DITCHES WHICH LEAD TO NATURAL (ING 10)
RTECS #:9999999ZZ

Ingred
Name:ING 9: WATERWAYS. CALL NATIONAL RESPONSE CENTER
(800-424-8802) IF SPILL IS EQUAL TO OR >REPORTABLE QUANTITY (ING
11)
RTECS #:9999999ZZ

Ingred Name:ING 10: (5000 LB/DAY) UNDER "SUPERFUND". ALL CLEAN-UP &
DISP SHD BE CARRIED OUT I/A/W FED, ST & LOC REGS. IF (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11: REQUIRED, STATE AND LOCAL AUTHORITIES SHOULD BE
NOTIFIED.
RTECS #:9999999ZZ

Ingred Name:FIRE FIGHT PROC:APPRVD SUPP-AIR RESP W/FULL FACEPIECE &
OPER IN PRESS DEMAND/OTHE

R POS PRESS MODE IN COMBINATION(ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13: W/AUXILIARY SCBA OPER IN PRESS-DEMAND/OTHER POS
PRESS MODE.H*2O SPRAY CAN BE USED TO REDUCE INTENSITY OF(ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14: FLAMES AND TO DILUTE SPILLS TO NONFLAMMABLE
MIXTURE.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50: (ORAL,RAT) 7.5 G/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcin
ogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INGEST: POISONOUS/FATAL IF SWALLOWED.
SMALL AMT (USUALLY TWO OR MORE OUNCES) CAN CAUSE MENTAL
SLUGGISHNESS, NAUS & VOMIT LEADING TO SEV ILLNESS, & MAY PRDCE
ADVERSE EFTS ON VISION W/POSS BLINDNESS/DEA TH (IN HUMANS) IF
TREATMENT IS NOT RECEIVED. INHAL: EXTREMELY HIGH LEVS CAUSE STUPOR,
HDCH, NAUS, DIZZ,(EFTS OF OVEREXP)
Explanation of Carcinogenicity:NOT RELEVANT.
Effects of Overexposure:HLTH HAZ: UNCON AND
MAY PRDCE ADVERSE EFTS ON
VISION. SKIN: RPTD/PRLNGD CONT CAUSES DRY, BRITTLINESS, CRACKING &
IRRIT. PRLNGD/RPTD SKIN CONT W/METHANOL-SOAKED MATL HAS PRDCED TOX
EFTS INCLUDING VISIO N EFTS & DEATH. EYE: MAY CAUSE EYE INJ WHICH
MAY PERSIST FOR SEV DAYS. LIQ & VAP IN HIGH CONC CAUSES IRRIT,
(SUPP DATA)
Medical Cond Aggravated by Exposure:SIGNIFICANT EXPOSURE TO THIS
CHEMICAL MAY ADVERSELY AFFECT PEOPLE WITH CHRONIC DISEASE OF
CENTRAL NERVOUS SYSTEM, SKIN, GASTROINTESTINA
L TRACT AND/OR EYES.

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

First Aid:INGEST: INDUCE VOMIT OF CONSCIOUS PATIENT IMMED BY GIVING 2
GLASSES OF H*2O & PRESSING FINGER DOWN THROAT. CONT PHYS IMMED.
INHAL: REMOVE PATIENT FROM CONTAM AREA. IF BRTHG HAS STOPPED, GIVE
ARTF RESP . THEN O*2 IF NEEDED. CONT PHYS IMMED. SKIN: REMOVE
CONTAM CLTHG & WASH CONTAM SKIN W/LRG AMTS OF H*2O. IF IRRIT
PERSISTS CONT PHYS. EYE: FLUSH EYES W/H*2O FOR AT LEAST 15 MIN.

CONT PHYS (SUPP DATA)

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

Flash Point Method:TOC

Flash Point:60.0F,15.6C

Lower Limits:5.5%

Upper Limits:38.5%

Extinguishing Media:USE CO*2/DRY CHEM FOR SMALL FIRES. ALCOHOL-TYPE
AQUEOUS FILM-FORMING FOAM/H*2O SPRAY FOR LRG FIRES. H*2O MAY (SUPP
DATA)

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP
. NIOSH/MSHA APPRVD SCBA W/FULL FACEPIECE OPER IN PRESS
DEMAND/OTHER POS PRESS MODE. NIOSH/
MSHA (ING 13)

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL
CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASHBACK. MATERIAL
CAN BURN WITH LITTLE OR NO VISIBLE FLAME.

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

Spill Release Procedures:ELIM IGNIT SOURCES. AVOID EYE/SKIN CONT. PLACE
LEAKING CNTNRS IN WELL-VENT AREA. IF FIRE POTENTIAL EXISTS, BLANKET
SPILL W/FOAM/USE H*2O SPRAY TO DISPERSE VAPS. CONT SPILL TO MIN
CONTAM AREA

& FACILIT ATE SALVAGE/DISP. TO CLEAN UP SPILL, FLUSH
(ING 9)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, WELL-VENT AREA. DO NOT
EXPOS TO TEMPS ABOVE 49C (120F). KEEP AWAY FROM HEAT, SPARKS AND
FLAME. KEEP CONTAINERS CLOSED.

Other Precautions:USE ONLY DOT-APPROVED CONTAINERS. USE SPARK-RESISTANT
TOOLS. DO NOT LOAD INTO COMPARTMENTS ADJACENT TO HEATED CARGO.
WHEN

TRANSFERRING FOLLOW PROPER GROUNDING PROC. USE W/ADEQ VENT. PROVIDE
EMER EXHST . AVOID BRTHG VAP. AVOID CONT (ING 3)

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

Respiratory Protection:BASED ON CONTAM LEV & WORKING LIMITS OF RESP,
USE RESP APPRVD BY NIOSH/MSHA: 2000 PPM-ANY NIOSH/MSHA APPRVD
SUPP-AIR RESP. ANY NIOSH/MSHA APPRVD SCBA. 5000 PPM-ANY NIOSH/MSHA
APPRVD SUPP-AIR RESP OPER IN CONT FLOW MODE. 10,000 PPM- (ING 5)

Ventilation:LOC EXHST R

ECOM WHEN APPROP TO CNTRL EMPLOYEE EXPOS. MECH
(GEN) NOT RECOM AS SOLE MEANS OF CONTROLLING EMPLOYEE EXPOS.
Protective Gloves:NEOPRENE OR RUBBER GLOVES.
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:FOR OPER WHERE SPILLS/SPLASHING CAN
OCCUR,USE IMPERVIOUS BODY COVERING AND BOOTS. SAFETY SHOWER & EYE
BATH SHD BE AVAIL.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
EXTING MEDIA: BE INEFT BUT SHD BE USED TO COOL FIRE-EXPOS
STRUCTURES &
VESSELS. EFTS OF OVEREXP: TEARING & BURNING SENSATION. FIRST AID
PROC: IMMED. NOTE TO PHYS: WHEN PLASMA METHANOL CONC ARE HIGHER
THAN 20 MG PER DECILITER, WHEN INGEST DOSES ARE >30 MILLILITERS &
WHEN THERE IS EVIDENCE OF ACIDOSIS/VISUAL (ING 2)

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

Boiling Pt:B.P. Text:148F,65C
Melt/Freeze Pt:M.P/F.P Text:-144F,-98C
Vapor Pres:95.0 @ 20C
Vapor Density:1.11
Spec Gravity:7925 (H*2O=1)
Evaporation Rate
& Reference:2.0 (BUAC=1)
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR, COLORLESS MOBILE LIQUID WITH MILD ALCOHOL
ODOR.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
SULFURIC ACID: OXIDIZING AGENTS SUCH AS HYDROGEN PEROXIDE, NITRIC ACID,
PERCHLORIC ACID & CHROMIUM TRIOXIDE.
Stability Condition to Avoid:HEAT, SPARKS, FLAME.
Hazardous Decomposition Products:CARBON MONOXIDE.

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

Waste Disposal Methods:PROD WHEN SPILLED/DISP IS HAZ SOLID WASTE AS
DEFINED AS RCRA (40CFR261). PREFERRED METHOD IS INCINERATION OR
BIOLOGICAL TREATMENT IN FEDERAL/STATE APPROVED FACILITY. DISPOSE OF
IN ACCORDANCE WITH FEDE RAL, STATE AND LOCAL REGULATIONS .

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