

TERRA NITROGEN CORPORATION -- METHANOL -- 6810-00-687-8056

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

Product ID:METHANOL

MSDS Date:12/01/1994

FSC:6810

NIIN:00-687-8056

MSDS Number: CDKPY

=== Responsible Party ===

Company Name:TERRA NITROGEN CORPORATION

Address:WOODWARD COMPLEX, 1000 TERRA DR.

City:WOODWARD

State:OK

ZIP:73801

Country:US

Info Phone Num:405-256-8651(CHEMTREC)

Emergency Phone Num:800-424-930

0(CHEMTREC)

CAGE:LO822

=== Contractor Identification ===

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

CAGE:0A9L8

Company Name:TERRA NITROGEN CORPORATION

Address:WOODWARD COMPLEX, 1000 TERRA DR.

Box:City:WOODWARD

State:OK

ZIP:73801

Country:US

Phone:405-256-8651(CHEMTREC)

CAGE:LO822

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

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)

CAS:67-56

-1  
RTECS #:PC1400000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S, 200 PPM  
ACGIH TLV:S,200PPM/250STEL; 96  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ORAL LD50:9100MG/KG IN RATS.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LIQ/VAP CAN PENETRATE SKIN/MUCOUS  
MEMBRANE THERFORE CONTROL OF INHA  
L MAY NOT BE SUFFICIENT TO TPEVNET  
EXCESSIVE DOSE.HARMFUL IF INHAL/ABSORBED THRU SKIN,CAUSES DMG TO  
LIVER/KIDNEY/NERVOUS SYST.CAUSES EYE/SKIN/NOSE/THROAT IRRIT.MAY BE  
FATAL/CAUSE BLINDNESS IF SWALLOWED.CAN'T BE MADE NON-POISONOUS.  
Explanation of Carcinogenicity:PER MSDS:LISTED AS CARCINOGEN  
IN:IARC/NTP/OSHA:NO.  
Effects of Overexposure:ACUTE:NON-SPEC DISCOMFT(NAU,WEAK),TEMP CNS  
DEPRESS W/ANETHETIC  
EFFECTS(DIZZ,HEAD,CONFUSION,INCOORD,UNCONSC),BLINDNESS.HIG  
EXPO:ABNOR L  
IVER/KIDNEY FUNCTION DETECTED BY LAB TEST,FATALITY FROM  
GROSS EXPO .INGEST(AS LITTLE AS 60ML)MAY CAUSE  
BLINDNESS,FATALITY.SKIN PERMEATION CAN OCCUR IN AMTS-PRODUCES SYS  
TOXICITY.  
Medical Cond Aggravated by Exposure:INDIVIDUALS W/PRE-EXISTING DISEASES  
OF RETINA OR LIVER MAY HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF  
EXCESSIVE EXPOSURES.

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

First Aid:EYE:FLUSH IMMED/THOROUGHLY FOR 15MINS W/WATER.IRRIT PERSIST  
S  
GET MED ATTN.SKIN:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS  
WHILE REMOVING CONTAMIN CLOTH/SHOES.CALL DR.INHAL:IMMED MOVE TO  
FRESH AIR .NOT BREATHING GIVE ART RESP;BREATHING DIFFICULT GIVE  
OXY.CALL DR.INGEST:AS LITTLE AS 60ML MAY CAUSE  
BLINDNESS/FATALITY.IMMED GIVE 2 GLASSES OF WATER.INDUCE VOMIT.CALL  
DR.NEVER GIVE ANYTHING (SUPPLEM)

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

Flash Point Method:TCC  
Flash Point:51.8F,11.0C  
Lower Limits:6

Upper Limits:36

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CO2, "ALCOHOL" FOAM.

Fire Fighting Procedures:EVACUATE AFFECTED AREA,STAY UPWIND,AVOID SMOKE/FUMES.USE WATER SPRAY TO COOL CNTNRS.IF SMOKE/FUMES CAN'T BE AVOIDED WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLAMM LIQ.FLAME INVISIBLE IN DAYLIGHT.METHANOL-WATER MIX WILL BURN UNLESS VERY DILUTE;MIXTURES W/25%/1,BUTYL ACETATE=1.0.

Solubility in Water:100%,COMPLETE.

Appearance and Odor:LIQUID, COLORLESS OR CLEAR, FAINT ALCOHOLIC.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

DON'T STORE OR MIX W/STRONG OXIDIZERS,CHRONIC ANHYDRIDE,LEAD PERCHLORATE,OR PERCHLORIC ACID(RXS VIGOROUSLY).

Stability Condition to Avoid:KEEP AWAY FROM HEAT/SPARKS/FLAME.

Hazardous Decomposition Products:OCCURS FROM HEAT & REACTION W/ABOVE STATED MATERIALS.

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

Waste Disposal Methods:RQ:5000LBS/2270KG.TOXIC CHEM UNDER SEC 313 TITLE III OF SARA/40CFR372.CMPD HAS VERY LOW AQU TOXICITY.CLEANED UP MATL MAY BE RCRA HAZ WASTE.RCRA HAZ WASTE #:U154.COMPLY W/FRED/STATE/LOCAL REGS ON DISPO.I F APPROVED INCINERATION,BIO-OXIDATION,(OTHER PREC)

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.