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TERRA INTERNATIONAL, INC. -- METHANOL -- 6810-00-275-6010

Product ID:METHANOL MSDS Date:12/01/1994

FSC:6810

NIIN:00-275-6010

MSDS Number: BYVVK === Responsible Party ===

Company Name: TERRA INTERNATIONAL, INC.

Address: WOODWARD COMPLEX, 1000 TERRA DRIVE

City:WOODWARD

State:OK ZIP:73801 Country:US

Info Phone Num:405-256-8651

Emergency Phone Num:405-256-8651

Chemtrec

Ind/Phone:(800)424-9300

CAGE:TERRA

=== 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

Contract Num:SP0450-99-M-C702

CAGE:0A9L8

Company Name: TERRA INTERNATIONAL, INC

Address:600 FORTH STREET

Box:6000

City:SIOUX CITY

State:IA

ZIP:51102-6000 Country:US

Phone:800-831-1002 EXT321

CAGE:TERRA

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

Ingred Name: METHYL ALCOHOL (METHA

NOL) (CADA 242) (CEDCLA)	
NOL) (SARA 313) (CERCLA)	
CAS:67-56-1	
RTECS #:PC1400000	
= Wt:100.	
Other REC Limits:NONE RECOMMENDED	
OSHA PEL:S, 200 PPM	
ACGIH TLV:S,200PPM/250STEL; 95	
EPA Rpt Qty:5000 LBS	
DOT Rpt Qty:5000 LBS	
=	
======================================	=:
LD50 LC50 Mixture:LD50 (ORL RAT) IS 5628 MG/KG (RTECS).	

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: LIVER, ACUTE: HUMAN

HEALTH EFFECTS OF OVEREXPOSURE BY INHALATION, INGESTION, OR SKIN OR EYE CONTACT MAY INCLUDE NONSPECIFIC DISCOMFORT; AND TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANE STHETIC EFFECTS. HIGHER EXPOSURES MAY LEAD TO ABNORMAL LIVER FUNCTION. INGESTION OF AS LITTLE AS 60 ML MAY CAUSE BLINDNESS OR FATALITY. SKIN PERMEATION CAN OCCUR IN AMOUNTS CAPABLE OF PRODUCTING SYSTE MS TOXICITY.

Effects of Overexposure:HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY INHALATION, INGESTION, OR SKIN OR

EYE CONTACT MAY INCLUDE

NONSPECIFIC DISCOMFORT SUCH AS NAUSEA, OR WEAKNESS; AND TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANEST HETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, AND LOSS OF CONSCIOUSNESS; OR BLINDNESS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING DISEASES OF THE RETINA OR LIVER MAY HAVE INCREASED SUSCEPTIBILTIY TO TOXICITY OF EXCESSIVE EXPOSURE.

First Aid:EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN:WASH AFFECTED AREA WITH SOAP & WATER. IF IRRITATION PERSISTS, SEE DOCTOR. INHALED:REMOVE TO FRESH AIR. PROVIDE C PR/OXYGEN IF NEEDED. OBTAIN EMERGENCY MEDICAL HELP. ORAL:IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING BY DRINKING WATER & PRESSING FINGER DOWN THROAT. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

Flash Point Method:TCC Flash Point:=11.1C, 52.F

Autoignition Temp:=385.C, 725.F

Lower Limits:6.0% Upper Limits:36%

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, C02. "ALCOHOL" FOAM. Fire Fighting Procedures:EVACUATE AFFECTED AREA. STAY UPWIND AND AVOID

SMOKE AND FUMES. USE WATER TO COOL CONTAINERS. IF SMOKE AND FUMES CANNOT BE AVOIDED, WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID. FLAME IN INVISIBLE IN DAYLIGHT. METHANOL-WATER MIXTURE

S WILL BURN UNLESS VERY DILUTE,

MIXTURES WITH 25% OR MORE METHANOL ARE OSHA CLASS I FLAMMABLE LIQUIDS. FOLLOW APPROPRIATE NATIO NAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.

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Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTION EQUIPMENT DURING CLEAN UP. DIKE LARGE SPILLS. FLUSH SPILL AREA WITH PLENTY OF WATER. DO NOT FLUSH TO SEWER. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REP ORTIN

G RELEASES.

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

Handling and Storage Precautions: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINERS TIGHTLY CLOSED. DO NOT STORE OR MIX WITH STRONG OXIDIZERS, CHROMIC ANHYDRIDE, LEAD PERCHLORIC, OR PERCHLORIC ACID. STORE IN ADEQUATELY VENTILATE D AREA.

Other Precautions:BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID. AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. USE WITH ADEQUATE

VENTILATION OR UNDER HOOD. WASH THOROUGHLY AFTER HANDLING. KE EP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATORY PROTECTION. Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: CHEMICAL RESISTANT GLOVES.

Eye Protection: CHEMICAL SPLASH GOGGLES/FACE SHIELD

Other Protective Equipment: UNIFORM, PROTECTIVE SU

IT, EYEWASH STATION & EMERGENCY SHOWER. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. MONITORING OF AIR IN WORKPLACE IS RECOMMENDED. Supplemental Safety and Health NONE ======== Physical/Chemical Properties =========== HCC:F5 Boiling Pt:=64.7C, 148.3F B.P. Text:AT 760 MM HG Melt/Freeze Pt:=-97.7C, -143.8F Vapor Pres:127 MMHG @ 77 DEG F Vapor Density:1.1(AIR=1) Spec Gravity:0.791 @ 68 DEG F Evaporation Rate & Dry Refer ence:>1 (N-BUTYL ACETATE=1) Solubility in Water:100 WT % Appearance and Odor:LIQUID, COLORLESS OR CLEAR, FAINT ALCOHOLIC ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES DO NOT STORE OR MIX WITH STRONG OXIDIZERS, CHRONIC ANHYDRIDE, LEAD PERCHLORATE, OR PERCHLORIC ACID (REACTS VIGOROUSLY). Stability Condition to Avoid: NONE PROVIDED BY MFR. Hazardous Decomposition Products: NONE PROVIDED BY MFR. (MFR STATED: OCCURS FROM HEAT A ND REACTION WITH ABOVE STATED MATERIALS) ======= Disposal Considerations ============ Waste Disposal Methods: CLEANED UP MATERIAL MAY BE AN RCRA HAZARDOUS WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON DISPOSAL. IF APPROVED INCINERATION, BIO-O XIDATION, SUBSURFACE INJECTION, OR A LICENSED DISPOSAL CONTRACTOR MAY BE USED.

WASTE. THE RCRA HAZARDOUS WASTE NUMBER FOR METHANOL IS U154. COMPLY

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

HAZARD CLASS 3, SUBSIDIARY RISK: POISON.
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SARA Title III Information:REGULATED AS A TOXIC CHEMICAL UNDER SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. RELEVENT HAZARD CATEGORIES: ACUTE, CHRONIC, FIRE, CERCLA, AND 313.
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