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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

Ingred Name:METHYL ALCOHOL (METHA

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.

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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.

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 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
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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 & amp; Refer ence:>1 (N-BUTYL ACETATE=1) Solubility in Water:100 WT % Appearance and Odor:LIQUID, COLORLESS OR CLEAR, FAINT ALCOHOLIC
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 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)
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Waste Disposal Methods:CLEANED UP MATERIAL MAY BE AN RCRA HAZARDOUS WASTE. THE RCRA HAZARDOUS WASTE NUMBER FOR METHANOL IS U154. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON DISPOSAL. IF APPROVED INCINERATION, BIO-O XIDATION, SUBSURFACE INJECTION, OR A LICENSED

DISPOSAL CONTRACTOR MAY BE USED.

Transport Information:DOT/IMO PROPER SHIPPING NAME: METHANOL, UN1230. HAZARD CLASS 3, SUBSIDIARY RISK: POISON.

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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