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Product ID:METHANOL,04307000

MSDS Date:01/06/1994

FSC:6810

NIIN:00-275-6010

MSDS Number: BWPDQ === Responsible Party ===

Company Name: TERRA INTERNATIONAL, INC.

Address:600 FOURTH STREET

City:SIOUX CITY

State:IA ZIP:51101 Country:US

Info Phone Num:800-831-1002 EXT 321 Emergency Phone Num:800-245-45 32/800-424-9300(CHEMTREC)

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

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 (METHANOL) (SARA 313) (CERCLA) CAS:

67-56-1

RTECS #:PC1400000 Fraction by Wt: 99.9%

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

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

LD50 LC50 Mixture:LD50 (ORL RAT) IS 5628 MG/KG (RTECS).

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,

RESPIRATORY & GI TRAC

TS. ACUTE- TOXIC. CAN CAUSE EYES, SKIN,

RESPIRATORY TRACT IRRITATION & CNS DEPRESSION. ASPIRATION DAMAGE LUNGS. SKIN ABSORPTION CAN OCCUR. INGESTION OF ONLY 1-4 OUNCES MAY CAUSE DEATH/BLINDNESS. CHRONIC- METHANOL IS SLOWLY ELIMINATED FROM BODY CAUSING TOXICITY.

Explanation of Carcinogenicity:METHANOL HAS BEEN REPORTED TO CAUSE BIRTH DEFECTS IN RATS EXPOSED TO VERY HIGH CONCENTRATIONS (20,000 PPM), PER MSDS.

Effects of Overexposure:IRRITATION, TEARING. BURNING SENSATION, DRYING

SKIN, DEFATTING, DIZZINESS, NAUSEA, VOMITING, DROWSINESS, HEADACHE, FATIGUE, CONVULSIONS, UNCONSCIOUSNESS, DEATH, BLINDNESS, SWELLING OF EYES AND REDNESS

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEY, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:EYE:IMMEDIATELY FLUSH WITH WA

TER 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.

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

Flash Point Method:TCC

Flash Poin

t:53.0F,11.7C Autoignition Temp:Autoignition Temp Text:725F Lower Limits:6.0%
Upper Limits:36.5% Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM, WATER SPRAY, HALON. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. FIRE MAY NOT BE VISIBLE TO THE NAKED EYES. >21% METHANOL IN WATER:FLAMMABLE Unusual Fire/Explosion Hazard:VAPORS CAN FLOW ALONG SURFACES TO
DISTAN CE IGNITION SOURCE AND FLASH BACK. BURNS WITH A CLEAR, ALMOST INVISIBLE FLAME. DILUTE LIQUID/VAPORS WITH WATER SPRAY.
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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. STOP LEAK IF POSSIBLE. COVER WITH NON-FLAMMABLE ABSORBENTS SUCH AS SAND. COLLECT SPILLED MATERIAL USING NON-SPARKING TOOLS. PL ACE IN METAL CONTAINERS. DO NOT FLUSH TO SEWER.
Neutralizing Agent :DILUTE WITH WATER.
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Handling and Storage Precautions:KEEP IN COOL(LT 80F), WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA, IN TIGHTLY CLOSED CONTAINERS, AWAY FROM SPARKS, FLAMES & INCOMPATIBLE MATERIALS.
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

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

HANDLING. KE EP OUT OF REACH OF CHILDREN.

Respiratory Protection:RESPIRATORY PROTECTION IS REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS >200 PPM, WEAR A NIOSH-APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS/SUPPLIED AIR. DO NOT US E ORGANIC VAPOR CARTRIDGE RESPIRATORS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE B

ELOW TLV(S). Protective Gloves: RUBBER, PVC Eye Protection: CHEMICAL SPLASH GOGGLES/FACE SHIELD Other Protective Equipment: UNIFORM, PROTECTIVE SUIT, 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 DANGER. POISON:CAN NOT BE MADE NON POISONOUS. FLAMMABLE. VAPOR HARMFUL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. SYMPTOMS MAY BE DELAYED. ETHANOL THERAPY MAY BE NEEDED IF INGESTED. ======== Physical/Chemical Properties ============ HCC:F5 NRC/State Lic Num: NOT RELEVENT Boiling Pt:B.P. Text:148F,65C Melt/Freeze Pt:M.P/F.P Text:-144F,-98C Decomp Temp:Decomp Text:NOT KNOWN Vapor Pres:96 @ 68F Vapor Density:1.1 Spec Gravity:0.79 Viscosity:1 CPS @ 86F Evaporation Rate & Reference: 5.9 (N-BUTYL ACETATE=1) Solubility in Water:100% Appearance and Odor: CLEAR, COLORLESS LIQUID - ALCOHOLIC ODOR Percent Volatiles by Volume:100 ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, ALUMINUM, ZINC (GALVANIZED), ANY OTHER REACTIVE METAL WHICH DISPLACE H2, SOME PLASTICS/RUBBER Stability Condition to Avoid: HEAT, FLAME, SPARKS, OTHER IGNITION SOURCES Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE AND PERHAPS FORMALDEHYDE ======= Disposal Considerations ============

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER IS U154 (TOXIC WASTE). RQ FOR METHANOL IS 5000 LBS. PREFERRED METHOD IS INCINERATION OR BIOLO GICAL TREATMENT IN AN APPROVED FACILITY.

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