

HOL INDUSTRIES, INC -- ALCOHOL, DENATURED -- 6810-00-205-6790

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

Product ID:ALCOHOL, DENATURED

MSDS Date:09/06/2000

FSC:6810

NIIN:00-205-6790

Status Code:A

MSDS Number: CKTNT

=== Responsible Party ===

Company Name:HOL INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Info Phone Num:316-838-4663

Emergency Phone Num:800-633-8253(
PERS)

Preparer's Name:DON POSCHEN

CAGE:0A9L8

=== 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:SP0450-00-M-SJ43

CAGE:0A9L8

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

Ingred Name:ETHANOL

CAS:64-17-5

RTECS #:KQ6300000

= Wt:95.34

Code:F

= Vol:95.2

OSHA PEL:1900 MG/M3;1000 PPM

ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHANOL

CAS:67-56-1

RTECS #:PC14

00000
= Wt:4.66
Code:F
= Vol:4.8
OSHA PEL:260 MG/M3;200 PPM
ACGIH TLV:262 MG/M3;200 PPM
ACGIH STEL:328 MG/M3;250 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-EYES: BELIEVED TO CAUSE MILD EYE IRRITATION. SKIN: HARMFUL IF ABSORBED THROUGH SKIN. BELIEVED TO BE SLIGHTLY IRRITATING. RESPIRATORY SYSTEM: OVEREXPOSURE TO MIST OR VAPORS MAY CAUSE DIZZINESS, DROWSINESS, HEADACHE, OR NAUSEA. MASSIVE OVEREXPOSURE MAY CAUSE UNCONSCIOUSNESS. CHRONIC: REPEATED SKIN CONTACT MAY CAUSE A PERSISTENT IRRITATION OR DERMATITIS.
Explanation of Carcinogenicity:THIS PRODUCT IS NOT CURRENTLY LISTED AS A CARCINOGEN BY NTP, OSHA, OR IARC.
Effects of Overexposure:HEADACHE, DIZZINESS, DROWSINESS, NAUSEA, UNCONSCIOUSNESS, COMA.

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

First Aid:EYE: FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE AND CLEAN CONTAMINATED CLOTHING. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION. INGESTION: CALL A DOCTOR IMMEDIATELY. ONLY INDUCE VOMITING AS DIRECTED BY A DOCTOR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, QUALIFIED PERSONNEL MAY ADMINISTER OXYGEN.

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

Flash Point Method:TCC
Flash Point:=-12.2C, 54.F
Autoignition Temp:=-385.C, 725.F
Lower Limits:4.3
Upper Limits:19
Extinguishing Media:USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE ON THE FLAMES, BUT WATER SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL.
Fire Fighting Procedures:WATER MAY BE INEFFECTIVE ON THE FLAMES, BUT WATER SHOULD BE USED TO

DO NOT KEEP FIRE-EXPOSED CONTAINERS COOL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR THE PERSONS ATTEMPTING TO STOP THE LEAK.

Unusual Fire/Explosion Hazard:FLAMMABLE! KEEP CONTAINERS TIGHTLY CLOSED. EXPLOSIVE AIR-VAPOR MIXTURES MAY OCCUR. VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL CONSIDERABLE DISTANCES TO SOURCES OF IGNITION AND THEN FLASH BACK. CARBON MONOXIDE AND CARBON DIOXIDE MAY BE FORMED ON BURNING.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES INCLUDING INTERNAL COMBUSTION ENGINES AND POWER TOOLS. VENTILATE AREA. AVOID BREATHING VAPOR. USE SUPPLIED-AIR MASK FOR LARGE SPILLS OR IN CONFINED AREAS. CONTAIN SPILL. REMOVE WITH INERT ABSORBENT. AVOID CONTACT WITH EYES. AVOID ALLOWING PRODUCT FROM ENTERING STREAMS OR SEWERS. REPORTABLE QUANTITY: 10,000 LBS. RECYCLE SPILL MATERIAL OR TREAT AS WASTE MATERIAL.

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

Handling and Storage Precautions:DANGER! FLAMMABLE! POISON! KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED. AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN. USE ONLY IN WELL VENTILATED AREAS. AVOID PROLONGED BREATHING OF VAPOR OR MIST. KEEP HEAD AWAY FROM CONTAINER WHEN OPENING OR DISPENSING.

Other Precautions:CAUSES MILD IRRITATION TO THE EYES. MAY CAUSE IRRITATION TO SKIN.
WASH THOROUGHLY AFTER HANDLING. DO NOT MIX WITH OXIDIZERS, NITRIC ACID AND HYDROGEN PEROXIDE.

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

Respiratory Protection:IF VAPOR, MIST OR DUST IS GENERATED IN EXCESS OF PERMISSIBLE CONCENTRATIONS, USE RESPIRATOR APPROVED BY MSHA OR NIOSH.

Ventilation:LOCAL EXHAUST VENTILATION RECOMMENDED.

Protective Gloves:GLOVES RESISTANT TO CHEMICAL AND PETROLEUM DISTILLATES REQUIRED.

Eye Protection:CHEMICAL TYPE GOGGLES SHOULD

D BE WORN. DO NOT WEAR
CONTACT LENSES.

Other Protective Equipment:PROTECTIVE CLOTHING SUCH AS UNIFORMS,
COVERALLS OR LAB COATS SHOULD BE WORN. LAUNDER OR DRY CLEAN WHEN
SOILED. BOOTS RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES
REQUIRED.

Work Hygienic Practices:AVOID EYE CONTACT. POISON! DANGER! FLAMMABLE!
CAUSES IRRITATION TO EYES AND SKIN. USE ADEQUATE VENTILATION. MAY
BE FATAL OR CAUSE BLINDNESS IF TAKEN INTERNALLY-CANNOT BE MADE
NONPOISONOUS.

Supplemental Safe
ty and Health

NOTE TO PHYSICIAN: ASPIRATION OF THIS PRODUCT DURING INDUCED EMESIS CAN
RESULT IN LUNG INJURY. IF EVACUATION OF STOMACH CONTENTS IS
CONSIDERED NECESSARY, USE METHOD LEAST LIKELY TO CAUSE ASPIRATION,
S UCH AS GASTRIC LAVAGE AFTER ENDOTRACHEAL INTUBATION.

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

HCC:F2

Boiling Pt:=64.4C, 148.F

B.P. Text:(148-173F/64-78C)

Vapor Pres:43.9@68F(20C)

Vapor Density:1.60

Spec Gravity:0.795@60F(15.6C)

pH:NO DATA FOUN

D

Viscosity:N.D.

Evaporation Rate & Reference:5.9 (BU-ACETATE = 1)

Solubility in Water:INFINITE

Appearance and Odor:COLORLESS, CHARACTERISTIC ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

REACTS VIOLENTLY WITH STRONG OXIDIZERS AND STRONG ACIDS.

Stability Condition to Avoid:REACTS VIOLENTLY WITH HEAT.

Conditions to Avoid Polymerization:DOES NOT OCCUR.

===== Disposal Consid

erations =====

Waste Disposal Methods:INCINERATE OR PLACE IN RCRA PERMITTED WASTE MANAGEMENT FACILITY. NO WASTE CLASSIFICATION OF PRODUCT HAS BEEN ESTABLISHED (AS PRESENTLY CONSTITUTED).

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

Transport Information:TRANSPORT, HANDLE, AND STORE IN ACCORDANCE WITH OSHA REGULATION 1910.106 AND APPLICABLE DOT REGULATIONS. GROUND AND ELECTRICALLY INTERCONNECT CONTAINERS FOR TRANSFER. USE SPARK-PROOF

TOOLS. DOT PROPER SHIPPING NAME: ALCOHOLS, N.O.S. (ETHANOL, METHANOL), UN 1987, PG I I. DOT HAZARD CLASS (IF APPLICABLE): FLAMMABLE LIQUID. LABELS NEEDED: FLAMMABLE LIQUID, ARROWS. DOT SPECIFICATION CONTAINER: I P I. DOT EXEMPTION NUMBER: NOT APPLICABLE. LIMITED QUANTITY: NOT APPLICABLE. THIS DENATURED ALCOHOL CANNOT BE SENT THROUGH U.S. MAIL.

===== Regulatory Information =====

SARA Title III Information:SECTION 311 HAZARD CATEGORIZATION: ACUTE, CHRONIC, FIRE. SECTION 313 TOXIC CHEMICALS: METHANOL, CAS# 67-56-1, 4.8 %(VOLUME).

Federal Regulatory Information:THIS PRODUCT IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

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