Product ID:AA 3-007 MSDS Date:01/26/1998

FSC:8010

NIIN:01-441-5941 Status Code:A

MSDS Number: CLMHN === Responsible Party ===

Company Name: ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Info Phone Num:614-790-3333/800-274-5263 Emergency Phone Num:1-800-274-5263

Preparer's Name: ERN

EST CARTER

Chemtrec Ind/Phone:(800)424-9300

CAGE:34897

=== Contractor Identification ===

Company Name: ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

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

Ingred Name: ALIPHATIC PETROLEUM DISTILLATES

CAS:64742-89-8

Code:F

Minumum % Wt:54. Maxumum % Wt:58.

Ingred Name: ISOBUTYL ISOBUTYRATE

CAS:97-85-8

RTECS #:NQ5250000 Minumum % Wt:18. Maxumum % Wt:22.

Ingred

Name:ISOPROPANOL CAS:67-63-0 RTECS #:NT8050000 Minumum % Wt:18. Maxumum % Wt:22. OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM

Ingred Name: ETHYL ACETATE

ACGIH STEL:1230 MG/M3;500 PPM

CAS:141-78-6

RTECS #:AH5425000

Minumum % Wt:2.3

Maxumum % Wt:6.

OSHA PEL:1400 MG/M3;400 PPM ACGIH TLV:1440 MG/M3;400 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards A

cute and Chronic:EYE: SYMPTOMS INCLUDE STINGING,

TEARING, REDNESS, AND SWELLING OF EYES. SKIN: SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING OF SKIN, AND SKIN BURNS. SWALLOWING: LARGE AMOUNTS MAY BE HAR MFUL. THIS MATERIAL CAN GET INTO THE LUNGS DURING SWALLOWING OR VOMITING. INHALATION: BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THAN THE RECOMMENDED EXPOSURE LIMITS.

Effects of Overexposure:SIGNS AND SYMPT OMS OF EXPOSURE TO THIS MATERIAL

THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THIS MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET, NAUSEA, VOMITING, DIARRHEA, IR RITATION, (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), LOW BLOOD PRESSURE, MILD TEMPORARY CHANGES IN THE LI VER, EFFECTS ON HEART RATE, RESPIRATORY DEPRESSION, (SLOWING OF BREATHING), LOSS OF

COORDINATION, CONFUSION, LUNG EDEMA (FLUID BUILDUP IN THE LUNG TISSUE) KIDNEY DAMAGE AND COMA.

Medical Cond Aggravated by Exposure:MATERIAL IS ASPIRATION HAZARD.

DANGER FROM ASPIRATION MUST BE WEIGHED AGAINST ORAL TOXICITY WHEN DECIDING WHETHER TO INDUCE VOMITING.

First Aid:EYES: MOVE PERSON AWAY TO FRESH AIR. FLUSH GENTLY WITH WATER AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. SKIN: REMOVE CONTAMIN

ATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER.
LAUNDER CLOTHIN G. SWALLOWING: IF INDIVIDUAL IS DROWSY OR
UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH. PLACE PERSON ON LEFT
SIDE WITH THE HEAD DOWN. INHALATION: MOVE PERSON INTO FRESH AIR. IF
BREATHING IS DIFFICULT, A DMINISTER OXYGEN. KEEP PERSON WARM AND
QUIET.

Flash Point Method:TCC Flash Point:=10.C, 50.F Lower Limits:1.0% Upper Limits:12.0%

Extingui

shing Media: REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

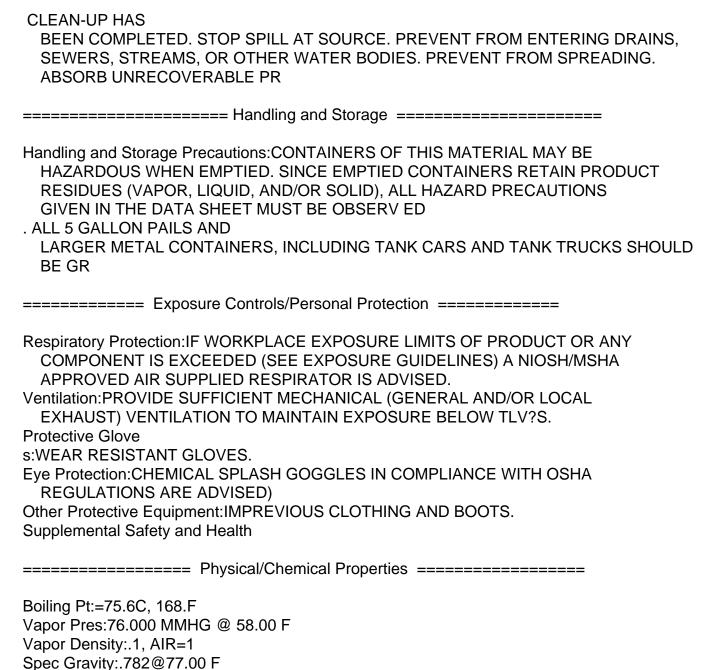
Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC

MOTORS, STATIC DISCHARGE, OR OT HER IGNITION SOURCES AT LOCATIONS.

NEVER USE WELDING TORCH NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT CAN IGNITE EXPLOSIVELY

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

Spill Release Procedures: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT. LARGE SPILL: ELIMINATE IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EX CLUDED FROM AREA OF SPILL UNTIL



VOC Pounds/Gallon:782 VOC Grams/Liter:6.51

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Evaporation Rate & Deference: SLOWER THAN ETHYL

tability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE ISOCYANATES, STRONG ALKALIES, STRONG OXIDIZING AGENTS. Stability Condition to Avoid:DO NOT USE WITH ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 F Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS.
========= Toxicological Information ===========
Toxicological Information:SILICON: LD50 (OR AL, RAT) 3160 MG/KG. MANGANESE: LD50 (ORAL, RAT) 9,000 MG/KG. IRON: INTRAPERITONEAL RABBIT LDL0: 20 MG/KG - NO TOXIC EFFECT NOTED.
========= Ecological Information ============
Ecological:NOT AVAILABLE
======== Disposal Considerations ===========
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
========= MSDS Transport Information ==========
Transport Info rmation:CONTAINER/MODE: 55 GAL DRUM/TRUCK PACKAGE NOS COMPONENT: NOT APPLICABLE RQ (REPORTABLE QUANTITY) -49 CFR 172.101 PRODUCT QUANTITY: (50000 LBS) COMPONENT: BENZENE
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SARA Title III Information:SECTION 311/312 HAZARD CLASS-40 CFR 370.2 IMMEDIATE (X) DELAYED(X) REACTIVE() SUDDEN RELEASE OF PRESSURE() SARA 313 COMPONENTS-40 CFR 372.65: SECTION 313 COMPONENT(S): N-BUTYL ALCOHOL 71-36-3 21.40- TOLUEN E-108-88-3-9.00-XYLENE
(MIXTED ISOMERS)-1330-20-7-4.76-ETHYLBENZENE-100-41-4-1.19 Federal Regulatory Information:TSCA (UNITED STATES) THE INTENTIONAL INGREDIENTS OF THIS PRODUCT ARE LISTED.CERCLA RQ-40 CFR 302.4(A)-N-BUTYL ALCOHOL-5000-TOLUENE-1000-XYLENES (O-,M-,P-ISOMERS)-100-ETHYLBENZENE-1000 State Regulatory Information:THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: THIS PRODUCT CONTAINS TH

E FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CAL IFORNIA TO CAUSE CANCER.

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