

ASHLAND CHEMICAL CO -- AA 3-007 -- 8010-01-441-5938

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

Product ID:AA 3-007
MSDS Date:01/26/1998
FSC:8010
NIIN:01-441-5938
Status Code:A
MSDS Number: CLMHP
=== 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:ERNE
ST 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 N

ame: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
ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:ETHYL ACETATE
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 Ac

ute 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 SYMPTO

MS 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 Measures =====

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

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

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

CLEAN-UP HAS

BEEN COMPLETED. STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS,
SEWERS, STREAMS, OR OTHER WATER BODIES. PREVENT FROM SPREADING.
ABSORB UNRECOVERABLE PR

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

Handling and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE
HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT
RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS
GIVEN IN THE DATA SHEET MUST BE OBSERVED.

ALL 5 GALLON PAILS AND

LARGER METAL CONTAINERS, INCLUDING TANK CARS AND TANK TRUCKS SHOULD
BE GR

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY
COMPONENT IS EXCEEDED (SEE EXPOSURE GUIDELINES) A NIOSH/MSHA
APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL
EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV'S.

Protective Gloves

:WEAR RESISTANT GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA
REGULATIONS ARE ADVISED)

Other Protective Equipment:IMPROVED CLOTHING AND BOOTS.

Supplemental Safety and Health

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

Boiling Pt:=75.6C, 168.F

Vapor Pres:76.000 MMHG @ 58.00 F

Vapor Density:.1, AIR=1

Spec Gravity:.782@77.00 F

VOC Pounds/Gallon:782

VOC Grams/Liter:6.51

Evaporation Rate & Reference:SLOWER THAN ETHYL

===== St

ability 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 (ORAL, RAT) 3160 MG/KG.

MANGANESE: LD50 (ORAL, RAT) 9,000 MG/KG. IRON: INTRAPERITONEAL RABBIT LDLO: 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 Information:NOT REGULATED.

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

SARA Title III Information:SECTION 311/312 PHYSICAL AND HEALTH HAZARD CATEGORY: IMMEDIATE (ACUTE), DELAYED (CHRONIC) IF PARTICULATES/FUMES ARE GENERATED DURING PROCESSING. SECTION 313 TOXIC CHEMICAL(S): ALUMINUM (FUME/DUST), BERYLLIUM, CHROMIUM, COPPER, MANGANESE AND ZINC (FUME/DUST)

Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INV

ENTORY. CERCLA HAZARDOUS

SUBSTANCES: BERYLLIUM, CHROMIUM, CHROMIUM COMPOUNDS, COPPER, LEAD, MANGANESE, NICKEL, ZINC .

State Regulatory Information: PENNSYLVANIA "SPECIAL HAZARDOUS

SUBSTANCE": BERYLLIUM, NICKEL, CHROMIUM COMPOUNDS, HEXAVALENT.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants thi

s information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.