

ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC -- TTT 306 CA TYPE II SOLVENT BLEND --  
8010-01-441-5940

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

Product ID:TTT 306 CA TYPE II SOLVENT BLEND

MSDS Date:01/05/1996

FSC:8010

NIIN:01-441-5940

Status Code:A

MSDS Number: CLPZK

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:4

3216

Country:US

Info Phone Num:614-790-3333 / 800-325-3751

Emergency Phone Num:1-800-274-5263

Preparer's Name:ERNEST CARTER

Chemtrec Ind/Phone:(800)424-9300

CAGE:7L600

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Phone:614-790-3333 / 800-325-3751

CAGE:7L600

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

Ingred Name:SOLVENT NAPHTHA (PETROLEUM), LIGHT ALI

PH.  
CAS:64742-89-8  
Minumum % Wt:58.  
Maxumum % Wt:62.

Ingred Name:N-BUTANOL  
CAS:71-36-3  
RTECS #:EO1400000  
= Wt:21.  
OSHA PEL:300 MG/M3;100 PPM  
ACGIH STEL:C152 MG/M3;C50 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ISOBUTYL ISOBUTYRATE  
CAS:97-85-8  
RTECS #:NQ5250000  
Minumum % Wt:8.  
Maxumum % Wt:12.

Ingred Name:TOLUENE  
CAS:108-88-3  
RTECS #:XS5250000  
= Wt:9.  
OSHA PEL:SEE TABLE Z-2  
ACGIH TLV:188 MG/M3;50 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:XYLENE  
CAS:1330-20-7  
RTE  
CS #:ZE2100000  
= Wt:4.8  
ACGIH TLV:434 MG/M3;100 PPM  
ACGIH STEL:651 MG/M3;150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYLBENZENE  
CAS:100-41-4  
RTECS #:DA0700000  
= Wt:1.2  
OSHA PEL:435 MG/M3;100 PPM  
ACGIH TLV:434 MG/M3;100 PPM  
ACGIH STEL:543 MG/M3;125 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

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

th Hazards Acute and Chronic: EYE: EXPOSURE MAY CAUSE MILD EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, AND REDNESS. SKIN: EXPOSURE MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING, AND SKIN BURNS. SWALLOWING: SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; SWALLOWING LARGE AMOUNTS MAY BE HARMFUL

UL. INHALATION: EXPOSURE TO VAPOR OR MIST IS POSSIBLE. SHORT-TERM INHALATION TOXICITY IS LOW. BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; BREATHING LARGE

Effects of Overexposure: GASTROINTESTINAL IRRITATION (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, RESPIRATORY TRACT), CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), AND DEATH. TARGET ORGAN EFFECTS:

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS, AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF THESE ORGANS IN HUMANS: LIVER ABNORMALITIES, ANEMIA, SPLEEN DAMAGE, EYE DAMAGE, KIDNEY DAMAGE, LUNG DAMAGE, OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HU

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

First Aid: E

YES: IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART; SEEK IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. SEEK MEDICAL ATTENTION. SWALLOWING: DO NOT INDUCE VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD. SEEK MEDICAL ATTENTION. INHALATION: IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. SEEK MEDICAL ATTENTION.

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

Flash Point Method: TCC

Flash Point: -6.5C, 20.F

- F

Lower Limits: .9%

Extinguishing Media: REGULAR FOAM, WATER FOG, 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

CTIVE EQUIPMENT. REFER TO THE PERSONAL PROTECTIVE EQUIPMENT SECTION OF THIS MSDS.

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 OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. NEVER USE WELDING OR CUTTING TORCH ON OR (EVEN E

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

Spill Release Procedures: SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL. LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN UP HAS BEEN COMPLETED, STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER.

===== 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 FIVE GALLON PAILS AND LARGER METAL CONTAINERS, INCLUDING TANK CARS AND TANK TRUCKS, SHOULD

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

Respiratory Protection: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE EXPOSURE GUIDELINES), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR INDUSTRIAL HYGIENIST). ENGINEERING OR ADM

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

Protective Gloves:WEAR RESISTANT GLOVES SUCH AS: NITRILE RUBBER, TO PREVENT REPEATED OR PROLONGE  
Eye Protection:CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED;  
Supplemental Safety and Health

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

Boiling Pt:=111.1C, 232.F  
Vapor Pres:22.000 MMHG @ 68.00 F  
Vapor Density:1.000  
Spec Gravity:.781 @ 77.00 F  
Evaporation Rate & Reference:SLOWER THAN ETHYL ETHER  
Percent Volatiles by Volume:100.0%

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

Stability Indicator/Materials to Avoid:YES  
AVOID CONTACT WITH: STRONG OXIDIZING AGENTS.  
Hazardous Decomposition Products:MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS.  
Conditions to Avoid Polymerization:PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

===== Toxicological Information =====

Toxicological Information:SILICON: LD50 (ORAL, 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 Information:CONTAINER/MODE: 55 GAL DRUM/TR

BUCK PACKAGE NOS

COMPONENT: NOT APPLICABLE RQ (REPORTABLE QUANTITY) -49 CFR 172.101

PRODUCT QUANTITY: (50000 LBS) COMPONENT: BENZENE

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Regulatory Information  
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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- TOLUENE-108-88-3-9.00-XYLENE  
(MIXTED ISOM

ERS)-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 THE FOLLOWING  
SUBSTANCE(S) KNOWN TO T  
HE STATE OF CAL IFORNIA TO CAUSE CANCER.

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Other Information  
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This information is formulated for use by elements of the Department  
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dvice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.