

ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC -- T 81772 TYPE 2 7652078 SOLVENT BLEND --
8010-01-200-2637

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

Product ID:T 81772 TYPE 2 7652078 SOLVENT BLEND

MSDS Date:01/26/1998

FSC:8010

NIIN:01-200-2637

Status Code:A

MSDS Number: CLQXR

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State

:OH

ZIP:43216

Country:US

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

Emergency Phone Num:1-800-274-5263

Preparer's Name:HENRY SIMMONS

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:PROPYLENE GYLCOL MONOMETHYL ETHER

CAS:107-98-2

RTECS #:UB77000

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Minumum % Wt:29.

Maxumum % Wt:33.

ACGIH TLV:369 MG/M3;100 PPM

ACGIH STEL:553 MG/M3;150 PPM

Ingred Name:METHYL ISOBUTYL KETONE

CAS:108-10-1

RTECS #:SA9275000

= Wt:17.

OSHA PEL:410 MG/M3;100 PPM

ACGIH TLV:205 MG/M3;50 PPM

ACGIH STEL:307 MG/M3;75 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

= Wt:52.

OSHA PEL:590 MG/M3;200 PPM

ACGIH TLV:590 MG/M3;200 PPM

ACGIH STEL:885 MG/M3;300 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

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

Health Hazards Acute and Chronic:EYE: CAN CAUSE EYE IRRITATION.

SYMPTOMS INCLUDE STINGING, TEARING, REDNESS, AND SWELLING OF EYES.

SKIN: CAN CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY

DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, AND DRYING OF

SKIN, BURNS AND OTHER SKIN DAMAGE. SWALLOWING: SWALLOWING SMALL

AMOUNTS OF THIS MATERIAL DURIN

G NORMAL HANDLING IS NOT LIKELY TO

CAUSE HARMFUL EFFECTS. SWALLOWING LAR GE AMOUNTS MAY BE HARMFUL.

INHALATION: BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL

AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO

CAUSE HARMFUL EFFECT. BREATHING LARGE A MOUNTS MAY BE HARMFUL

Effects of Overexposure:SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL

THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THIS MATERIAL

THROUGH THE SKIN MAY INCLUDE: MOUTH AND THROA

T IRRITATION

(SORENESS, DRY OR SCRATCHING FE ELING, COUGH), STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), LUNG IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGU E, HEADACHE, UNCONSCIOUSNESS).

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

First Aid:EYES: 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. FLUSH EXPOSED AREA WITH LARGE AMOUNTS OF WATER. IF SKIN IS DAMAGED, SEEK IMMEDIATE MEDICAL CONDITION. SWALLOWING: SEEK MEDICAL ATTENTION. IF INDIVIDUAL OR DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH HEAD ONE.

INHALATION: IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH. SEEK IMMEDIATE MEDICAL CONDITION.

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

Flash Point Method:TCC

Flash Point:=-6.5C, 20.F

22-99F-6.6-37.2C

Lower Limits:1.4

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 TURNOUT GEAR AND CHEMICAL RESISTANT PROTECTIVE 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 LOCATION DISTANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures:SMALL SPIL

L - 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.

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

Handling and Storage

Precautions:CONTAINERS OF THIS MATERIAL MAY BE
HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS PRODUCT RESIDUES
(VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE
DATA SHEET MUST BE OBSERVED. ALL FIRE-GALLON PAILS AND LARGER
METAL CONTAINER, INCLUDING TANK CARS AND TANK TRUCKS.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMIT (S) OF PRODUCT OR
ANY COMPONENT IS EXCEEDED (SEE EXPOSURE GUIDELINES) A NIOSH/MSHA
APPROVES 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).

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

Protective Gloves:WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT
SUPPLIER)

Eye Protection:

Chemical Splash Goggles in compliance with OSHA
regulations are advised.

Supplemental Safety and Health

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

Boiling Pt:=79.4C, 175.F

Vapor Pres:78 MMHG @ 68F

Spec Gravity:> 1.000

Evaporation Rate & Reference:SLOWER THAN ETHYL ETHER

Appearance and Odor:HOMOGENEOUS SOLUTION LIQUID

Percent Volatiles by Volume:100%

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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

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS

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

SARA Title III Information:SARA 302 COMPONENTS - 40 CFR 355 APPENDIX A NONE SECTION 311/312 HA

ZARD CLASS ? 40 CFR 370.2 IMMEDIATE

DELAYED FIRE SARA 313 COMPONENTS - 40 CFR 372.65 METHYL ETHYL KETONE 78-93-3 52% METHYL ISOBUTYL KETONE 108-10-1 17%

Federal Regulatory Information:TSCA (UNITED STATES) THE INTENTION OF THIS PRODUCT ARE LISTED CERCLA RQ ? 40 CFR 302.4 (A) METHYL ETHYL KETONE 5000 LBS METHYL ISOBUTYL KETONE 5000 LBS

State Regulatory Information:CALIFORNIA PROPOSITION 65 NONE NEW JERSEY RTK LABEL INFORMATION METHYL ETHYL KETONE 78-93-3 PROPYLENE G

LYCOL MONOMETHYL ETHER 107-98-2 METHYL ISOBUTYL KETONE 108-10-1 PENNSYLVANIA RTK LABEL INFORMATION 2- BUTANONE 78-93-3 2- PROPANOL, 1- METHOXY 107-98-2 2- PENTANONE, 4- METHYL 108-10-1

===== Other Information =====

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