

ASHLAND DISTRIBUTION & SPECIALTY CHEMICAL CO. -- A-A-59281, CLEANING COMPOUND,
SOLVENT MIXTURES -- 6850-00-611-7993

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

Product ID:A-A-59281, CLEANING COMPOUND, SOLVENT MIXTURES

MSDS Date:08/03/1999

FSC:6850

NIIN:00-611-7993

MSDS Number: CKZNY

=== Responsible Party ===

Company Name:ASHLAND DISTRIBUTION & SPECIALTY CHEMICAL CO.

Box:2219

City:COLUMBUS

State:OH

ZIP:432

16-2219

Country:US

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

Emergency Phone Num:800-274-5263

Resp. Party Other MSDS Num.:301.0324537-002.004

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

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

Contract Num:SP0450-01-M-D810

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AGE:4N760

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Composition/Information on Ingredients
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Ingred Name:ALIPHATIC PETROLEUM DISTILLATES

CAS:64742-89-8

Minumum % Wt:36.

Maxumum % Wt:40.

Ingred Name:ETHYL ACETATE

CAS:141-78-6

RTECS #:AH5425000

Minumum % Wt:18.

Maxumum % Wt:22.

OSHA PEL:1400 MG/M3;400 PPM

ACGIH TLV:1440 MG/M3;400 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

Minumum % Wt:20.

Maxumum % Wt:20.

OSHA PEL:590 MG/M3;200 PPM

ACGIH TLV:5

90 MG/M3;200 PPM

ACGIH STEL:885 MG/M3;300 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:TOLUENE

CAS:108-88-3

RTECS #:XS5250000

Minumum % Wt:13.

Maxumum % Wt:13.

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:ISOPROPANOL

CAS:67-63-0

RTECS #:NT8050000

Minumum % Wt:8.

Maxumum % Wt:12.

OSHA PEL:980 MG/M3;400 PPM

ACGIH TLV:983 MG/M3;400 PPM

ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:XYLENE

CAS:1330-20-7

RTECS #:ZE2100000

Minumum %

Wt:2.3
Maxumum % Wt:2.3
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:1,2,4-TRIMETHYLBENZENE
CAS:95-63-6
RTECS #:DC3325000
Minumum % Wt:1.
Maxumum % Wt:1.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE-CAN CAUSE EYE IRRITATION. SKIN-CAN
CAUSE SKIN IRRITATION
. PROLONGED OR REPEATED CONTACT MAY DRY THE
SKIN. PASSAGE OF THIS MATERIAL INTO THE BODY THROUGH THE SKIN IS
POSSIBLE, BUT IT IS UNLIKELY THAT THIS WOULD RESULT IN HARMFUL
EFFECTS DURING SAFE HANDLING/USE. SWALLOWING-SWALLOWING SMALL
AMOUNTS OF THIS MATERIALS DURING NORMAL HANDLING IS NOT LIKELY TO
CAUSE HARMFUL EFFECTS. SWALLOWING LARG E AMOUNTS MAY BE HARMFUL.
INHALATION: BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL
AMOUNTS OF THIS MATERIAL DURING NORM
AL HANDLING IS NOT LIKELY TO
CAUSE HARMFUL EFFECTS. BREATHING LARGE AM OUNTS MAY BE HARMFUL.
Explanation of Carcinogenicity:BASED ON THE AVAILBLE INFORMATION, THIS
MATERIAL CANNOT BE CLASSIFIED WITH REGARD TO CARCINOGENICITY. THIS
MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY
FOR RESEARCH ON CANCER, TH E NATIONAL TOXICOLOGY PROGRAM, OR THE
OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION.
Effects of Overexposure:EYE-SYMPTOMS INCLUDE STINGING, TEARING,
REDN
ESS, AND SWELLING OF EYES. SKIN-SYMPTOMS MAY INCLUDE REDNESS,
BURNING, AND DRYING AND CRACKING OF SKIN, BURNS AND OTHER SKIN
DAMAGE. SWALLOWING-THIS MATERIA L CAN GET INTO THE LUNGS DURING
SWALLOWING OR VOMITING. THIS RESULTS IN LUNG INFLAMMATION AND OTHER
LING INJURY. INHALATION-SYMPTOMS USUALLY OCCUR AT AIR CONCENTATIONS
HIGHER THAN THE RECOMMENDED EXPO SURE LIMITS. "SEE TOXICOLOGICAL"

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

First Aid:EYES-IMM

EDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE & INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR 15 MINS WHILE HOLDING EYELIDS APART; SEEK IMMEDIATE MEDICAL AID. SKIN-REMOVE CONTAMINATED CLOTHES . FLUSH AREA WITH LARGE AMOUNTS OF WATER. IF SKIN IS OR ISN'T DAMAGED, SEEK IMMEDIATE MEDICAL AID. SWALLOWING-SEEK MEDICAL AID. IF INDIVIDUAL IS DROWSY/UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLA CE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT PHYSICIAN. DO NOT L
EAVE INDIVIDUAL ALONE. INHALATION-MOVE PERSON AWAY FROM EXPOSURE & INTO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. KEEP WARM & QUIET; SEEK MEDICAL AID.

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

Flash Point Method:TCC

Flash Point:=-12.2C, 10.F

10-19F

Lower Limits:1.2

Upper Limits:12

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

Fire Fighting Procedures:WEAR A SELF-CONTAINED REATHING APPATATUS WITH

A FULL FACEPIECE IPERATED IN TH

E POSTIVE PRESSURE DEMAND MODE WITH

APPROPRIATE TURN-OUT GEAR AND CHEMICAL RSISTANT PERSONAL PROTECTIVE EQUIPMENT. REFER T O THE PERSONAL PROTECTIVE EQUIPMENT SECTION OF THIS MSDS.

Unusual Fire/Explosion Hazard:MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING ELETRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DIS
TANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures:SMALL SPILL-ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER 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, SE

WERS, STREAMS OR
OTHER BODIES OF WATER.

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Handling and Storage
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Handling and Storage Precautions:CONTIANERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, &/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED . ALL 5-GALLON PAILS & LARGER METAL CANS, INCLUDING TANK CARS & TANK RTRUCKS, SHOULD BE GROUNDED.

Other Precautions:WARNING-SUDDEN RELEA
SE OF HOT ORGANIC CHEMICAL VAPORS
OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURES/PRESSURE, OR SUDDEN INGRESS IF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIO NS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES.

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Exposure Controls/Personal Protection
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Respiratory Protection:IF WORKPLACE EXPOSURE LIMIT OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS AFVISED IN ABSENCE OF PROPER EN
VIRONMENTAL CONTROL.

OSHA REGULATION ALSO PERMIT OT HER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE), UMDER SPECIFIED CONDITION. ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

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

Protective Gloves:WEAR RESISTANT GLOVES TO PREVENT REPEATED/PROLONGED SKIN CONTACT.

Eye Protection:CHEMICAL SPASH GOGGLES IN COMPLIANCE WITH OSHA

REGULATIONS ARE ADVISED.

Other Protective Equipment:EMERGENCY EYEWASH FOUNTAINS & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF POTENTIAL EXPOSURE. WEAR IMPERVIOUS CLOTHING & BOOTS.

Work Hygienic Practices:LAUNDER CLOTHING BEFORE REUSE.

Supplemental Safety and Health

FIRE FIGHTING INSTRUCTIONS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

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Physical/Chemical Prop
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erties =====

HCC:F2

Boiling Pt:=75.6C, 168.F

Vapor Pres:78.000 MMHG @ 68F

Vapor Density:>1.000

Spec Gravity:.805

Evaporation Rate & Reference:SLOWER THAN ETHYL ETHER

Appearance and Odor:LIQUID, HOMOGENEOUS SOLUTION.

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH: ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE
ISOCYANATES, STRONG ALKALIES, STRONG OXIDIZING AGENTS, DO NOT USE
WITH ALUMINU

M EQUIPMENT AT TEMPERATURES ABOVE 120F.

Hazardous Decomposition Products:MAY FORM: CARBON DIOXIDE AND CARBOND
MONOXIDE, VARIOUS HYDOCARBONS.

Conditions to Avoid Polymerization:PRODUCT WILL NOT UNDERGO HAZARDOUS
POLYMERIZATION.

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

Toxicological Information:SYMPTOMS OF EXPOSURE3/12/2001 SIGNS &
SYMNPOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING,
SWALLOWING, &/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY

INCLUDE: METALLIC TASTE, STOMACH OR INTESTINAL UPSET, IRRITATION
(NOSE, THROAT, AIRWAYS), CNS DEPRESSION (DIZZINESS, DROWSINESS,
WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), CNS
EXCITATION (GIDDINESS, LIVELINESS, LIGHT-HEADED FEELING) FOLLOWED
BY CNS DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE,
NAUSEA, HEADACHE, UNCONSCIOUSNESS) & OTHER CNS EFFECTS, "SEE OTHER
INFORMATION"

===== Ecological Information =====

Ecologic
al:NO DATA.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE
LOCAL, STATE & FEDERAL REGULATIONS. FOR ASSISTANCE WITH YOUR WASTE
MANAGEMENT NEEDS-INCLUDING DISPOSAL, RECYCLING & WASTE STREAM
REDUCTION CONTACT ASHLAND DISTRIBUTION COMPANY IC&S ENVIRONMENTAL
SERVICES GROUP AT 800-637-7922.

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

Transport Information:DOT INFORMATIO

N - 49 CFR 172.101. DOT

DESCRIPTION: PAINT RELATED MATERIAL, 3, UN1263, II. CONTAINER/MODE:
55 GAL DRUM/TRUCK PACKAGE. NOS COMPONENT: NOT APPLICABLE. RQ
(REPORTABLE QUANTITY) - 49 CFR 172 .101. PRODUCT QUANTITY (LBS)
COMPONENTS.

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Regulatory Information
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SARA Title III Information:SARA 302 COMPONENTS-40 CFR 355 APPENDIX A:
NONE. SECTION 311/312 HAZARD CLASS - 40 CFR 370.2: IMMEDIATE(X),
DELAYED (X), FIRE (X), REACTIVE (), SUDDEN
RELEASE OF PRESSURE ().

SARA 313 COMPONENTS - 40 CFR 372.65: SECTION 313 COMPONENTS-METHYL
ETHYL KETONE, CAS#78-93-3, 20%; TOLUENE, CAS#108-88-3, 12.51%;
XYLENE (MIXED ISOMERS), CAS#1330-20-7, 2.30%;
1,2,4-TRIMETHYLBENZENE, CAS#95-63-6, 1.00%.

Federal Regulatory Information:TSCA (TOXIC SUBSTANCES CONTROL ACT)
STATUS: TSCA (UNITED STATES) THE INTENTIONAL INGREDIENTS OF THIS
PRODUCTS ARE LISTED. CERCLA RQ - 40 CFR 302.4(A): ETHYL ACETATE,
RQ=5000 LBS; METHYL ETHYL KET
ONE, RQ=5000 LBS; TOLUENE, RQ=1000
LBS; XYLENES (O-, M-, P- ISOMERS), RQ=100 LBS. CERCLA RQ-40 CFR
302.4(B): MATERIALS WITHOUT A "LISTED" RQ MAY BE REPORTABLE AS AN
"UNLISTED HAZARDOUS SUBSTANCE". SEE 40 C FR 302.5(B). OSHA PROCESS
SAFETY MANAGEMENT, 29 CFR 1910: NONE LISTED. EPA ACCIDENTAL RELEASE
PREVENTION 40 CFR 68: NONE LISTED. INTERNATIONAL REGULATIONS,
INVENTORY STATUS: NOT DETERMINED.

State Regulatory Information:CALIFORNIA PROPOSITION 65: CAUSE CANCER,
BENZ
ENE AND ACETYLDEHYDE. CAUSE REPRODUCTIVE HARM, TOLUENE AND
BENZENE. NEW JERSEY RTK INFORMATION: NAPHTHA, SOLVENT, 64742-89-8;
ETHYL ACETATE, 141-78-6; METHYL ETHYL KETONE, 78-93-3; TOLUENE,
108-88-3; ISOPROPYL ALCOHOL, 67-63-0; XYLENES, 1330-20-7;
PSEUDOCUMENE, 955-63-6. PENNSYLVANIS RTK LABEL INFORMATION:
ALIPHATIC PETROLEUM DISTILLATES, 64742-89-8; ACETIC ACID ETHYL
ETHER, 141-78-6; 2-BUTANONE, 78-93-3; BENZENE, METHYL-, 108-88-3;
2-PROPANOL, 67-63-0 ; BENZENE, DIM
ETHYL-, 1330-20-7; PSEUDOCUMENE,
95-63-6.

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Other Information
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assume responsibility for the suitability of this information to their
particular situation.