

BARTON SOLVENTS, INC -- BARSOL A-2688 -- 6850-00-538-0929

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

Product ID: BARSOL A-2688

MSDS Date: 11/17/1997

FSC: 6850

NIIN: 00-538-0929

MSDS Number: CFYDK

=== Responsible Party ===

Company Name: BARTON SOLVENTS, INC

Address: 1920 N.E. BROADWAY

Box: 221

City: DES MOINES

State: IA

ZIP: 50301

Country: US

Info Phone Num: 515-265-7998

Emergency Phone Num: 515-265-7998/800-424-9300(

CHEMTREC)

CAGE: FO636

=== Contractor Identification ===

Company Name: BARTON SOLVENTS, INC.

Address: 1920 N.E. BROADWAY

Box: 221

City: DES MOINES

State: IA

ZIP: 50301

Country: US

Phone: (515) 265-7998

CAGE: FO636

Company Name: HOC INDUSTRIES, INC

Address: 3511 N. OHIO

Box: 2609

City: WICHITA

State: KS

ZIP: 67219

Country: US

Phone: 316-838-4663

CAGE: 0A9L8

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

Ingred Name: SOLVENT NAPHTHA (PETROLEUM) MEDIUM ALIPHATIC

CAS: 64742-88-7

Fraction by Wt: >9

%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 (OIL MIST)
ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:TOLUENE (SARA 313) (CERCLA)
CAS:108-88-3
RTECS #:XS5250000
Fraction by Wt: 25%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM; Z-2
ACGIH TLV:S, 50 PPM; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313) (CERCLA)
CAS:78-93-3
RTECS #:EL6475000
Fraction by Wt: 20%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM
ACGIH TLV:200 PPM/
300STEL;9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL ACETATE (CERCLA)
CAS:141-78-6
RTECS #:AH5425000
Fraction by Wt: >9%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: >9%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596

==== Hazards Identification =====

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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,

RESPIRATORY & GI TRACTS- MAY CAUSE EYE & SKIN IRRITATION. INGESTION MAY CAUSE VOMITING; ASPIRATION INTO LUNGS MAY CAUSE LUNG DAMAGE. INHALATION MAY CAUSE CNS EFFECTS, IRR EGULAR HEARTBEAT, NARCOSIS, NAUSEA, ASPHYXIATION, EDEMA WHICH MAY BE FATAL. CHRONIC- MAY CAUSE

SLIGHT SKIN SENSITIZATION

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, DRY SKIN, TEARING, BLURRED VISION, REDNESS, DEFATTING, DERMATITIS, HEADACHE, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, VOMITING, DIARRHEA, UNCONSCIOUSNESS, DEATH

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

===== F

irst Aid Measures =====

First Aid:CALL PHYSICIAN IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. ORAL:DO NOT INDUCE VOMITING. IF PERSON IS DRO WSY/UNCONSCIOUS, PLACE ON LEFT SIDE WITHHEAD DOWN. GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION.

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

Flas

h Point Method:CC

Flash Point:23.0F,-5.0C

Autoignition Temp:Autoignition Temp Text:750F

Lower Limits:2%

Upper Limits:12%

Extinguishing Media:WATER FOG, FOAM, DRY CHEMICAL/CARBON DIOXIDE. DON'T USE DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE. COOL CONTAINER WITH WATER.

Unusual Fire/Explosion Hazard:VAPOR IS

HEAVIER THAN AIR AND CAN TRAVEL
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.
CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. REMOVE SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND/CLAY. PLACE IN CONTAINER FOR DISPOSAL. WASH SPILL SITE AFTER PICK UP IS COMPLETE. PREVENT LIQUID FROM

ENTERINGSEWERS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN VENTILATED AREA AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:FLAMMABLE. "EMPTY" CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER OR DRILL. AVOID BREATHING VAPORS. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING

AVOID DIRECT SUN. DO NOT INGEST.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR AIR-SUPPLIED RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Glove

s:NITRILE RUBBER OR POLYVINYL

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. LAB COAT

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING OR DRINKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A AND B, SAME NSN.

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

HCC:F2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:171F,77C

Melt/Freeze Pt:M.P/F.P Text:-119F,-84C

Vapor Pres:73 @ 68F

Vapor Density:4.7

Spec Gravity:0.83

Evaporation Rate & Reference:3.8 (N-BUTYL ACETATE=1)

Solubility in Water:INSOLUBLE

Appearance and Odor:CLEAR LIQUID - HYDROCARBON ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Av

oid:YES

STRONG OXIDIZING AGENTS, ACIDS, ALKALIS, REDUCING AGENTS, METALS,
ORGANIC MATERIALS, HALOGENS

Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES, HOT METAL
SURFACES AND OTHER SOURCES OF IGNITION, MOISTURE

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS. RECYCLING, INCINERATION OR REUSING IS

RECOMMENDED.

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