SECTION I. MATERIAL IDENTIFICATION

TRADE/MATERIAL NAME: ORIGINAL CONTACT CEMENT
DESCRIPTION: CONTACT CEMENT
CAS: MIXTURE
MSDS REVISION DATE: APRIL 30, 1993

SHIPPING NAME (49 CFR 172.101): ADHESIVE (CONSUMER COMMODITY*)
D.O.T. HAZARD CLASS (49 CFR 172.101): 3 (ORM-D*)
D.O.T. ID NO. (49 CFR 172.101): UN 1133 (NONE*)
D.O.T. LABEL REQUIRED (49 CFR 172.101): FLAMMABLE LIQUID (NONE*)
D.O.T. PACKAGING GROUP (49 CFR 172.101): II (NONE*)
EPA WASTE CODE - IF DISCARDED (40 CFR 261): D001-IGNITABLE

*FOR METAL CONTAINERS OF 32 OZ. OR LESS

MANUFACTURER: DAP, INC.
P.O. BOX 277
DAYTON, OH 45401-0277

PHONE: 24 HOUR EMERGENCY:
INFO TRAC 1-800-535-5053
DAP, INC. 1-800-543-3840
GENERAL INFORMATION:
DAP, INC. 1-800-543-3540

SECTION II. INGREDIENTS AND HAZARDS

INGREDIENT NAME: CAS NUMBER: PERCENT: EXPOSURE LIMITS:
LACTOL SPIRITS 64742-89-8 50-55 OSHA PEL: 400PPM TWA
+TOLUENE 108-88-3 15-20 OSHA PEL: 100PPM TWA
OSHA STEL: 150PPM
ACGIH TLV: 100PPM
ACGIH STEL: 150PPM
OSHA PEL: 200PPM TWA
OSHA STEL: 300PPM
ACGIH TLV: 200PPM TWA
ACGIH STEL: 300PPM

METHYL ETHYL KETONE 78-93-3 10-15

REMAINING INGREDIENTS ARE NOT REGULATED BY OSHA AND ARE CONSIDERED TRADE SECRETS.

IF PRESENT, CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III
SECTION 313 ARE IDENTIFIED BY A (+) PRECEDING THE CHEMICAL NAME ABOVE.
SECTION III. PHYSICAL DATA

APPEARANCE & ODOR: TAN PASTE WITH HYDROCARBON ODOR

BOILING POINT: 170-180°F
VAPOR PRESSURE: 70MMHG @ 100F
WATER SOLUBILITY (%): INSOLUBLE
VAPOR DENSITY (AIR=1): 2.5

EVAPORATION RATE: (N-BUTYL ACETATE)
SPECIFIC GRAVITY (H2O=1): 0.81
% VOLATILE BY VOLUME: 85-90

VOC LESS WATER LESS EXEMPT SOLVENT (G/LITER): 670-675
VOC MATERIAL (G/LITER): 670-675

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): 21F MINIMUM
LIMITS: LEL %: NE
UEL %: NE

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICALS, WATER FOG

UNUSUAL FIRE OR EXPLOSION HAZARDS: CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT. ELIMINATE SOURCES OF IGNITION: HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAMES. DO NOT PUT IN CONTACT WITH OXIDIZING OR CAUSTIC MATERIALS.

SPECIAL FIRE-FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS, IS RECOMMENDED TO PROTECT FROM COMBUSTION PRODUCTS. COOL EXPOSED CONTAINERS WITH WATER.

SECTION V. REACTIVITY DATA

MATERIAL IS STABLE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZERS AND CAUSTICS, ALUMINUM AND GALVANIZED METALS.

CONDITIONS TO AVOID: EXCESSIVE HEAT AND FREEZING, CONTACT WITH REACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM.

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL COMBUSTION PRODUCTS, I.E. COX, NOX, HCL, PHOSGENE, AND CHLORINE.

SECTION VI. HEALTH HAZARD INFORMATION

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: NONE KNOWN.

PRIMARY ENTRY ROUTE(S): INHALATION OF SOLVENT VAPOR AND SKIN CONTACT

ACUTE EFFECTS: MAY IRRITATE EYES, SKIN, NOSE, AND RESPIRATORY TRACT. HARMFUL IF INHALED. HARMFUL OR FATAL IF SWALLOWED. IF INGESTED, THIS PRODUCT MAY CAUSE VOMITING, DIARRHEA, AND DEPRESSED RESPIRATION. INHALATION MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE, OR NAUSEA. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

CHRONIC EFFECT(S): REPORTS HAVE ASSOCIATED PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE WITH PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS. OVEREXPOSURE OR MISUSE OF TOLUENE CAN CAUSE LIVER, KIDNEY, AND BRAIN DAMAGE AS WELL AS CARDIAC ABNORMALITIES. PROLONGED OR REPEATED CONTACT WITH SKIN CAN CAUSE DEFATTING OF THE SKIN WHICH MAY LEAD TO DERMATITIS.

HEALTH HAZARD INFORMATION CONTINUES ON PAGE 3
MATERIAL SAFETY DATA SHEET

DAP, INC.
P.O. BOX 277
DAYTON, OH 45401-0277

MSDS NO: DAP / 30503
INTERNAL ID: 30503
ORIGINAL CONTACT CEMENT
REVISION: 9
DATE: MAY 27, 1993

FIRST AID:

EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. CONTACT A PHYSICIAN IMMEDIATELY.

SKIN CONTACT: WASH IMMEDIATELY WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR. CONTACT A PHYSICIAN IMMEDIATELY.

INGESTION: DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN OR REGIONAL POISON CONTROL CENTER IMMEDIATELY.

SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

SPILL / LEAK PROCEDURES: DIKE SPILL AREA. USE ABSORBENT MATERIAL OR SCRAPE UP DRIED MATERIAL AND PLACE INTO CONTAINERS.

WASTE MANAGEMENT / DISPOSAL: DISPOSE OF ACCORDING TO FEDERAL, STATE, AND LOCAL STANDARDS. DISCARDED MATERIAL SHOULD BE INCINERATED AT A PERMITTED FACILITY. LIQUIDS CANNOT BE DISPOSED OF IN A LANDFILL. DO NOT REUSE EMPTY CONTAINER.

SECTION VIII. SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:

GOGGLES: GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS

GLOVES: SOLVENT IMPERVIOUS GLOVES

RESPIRATOR: IF 8-HOUR EXPOSURE LIMIT OR VALUE IS EXCEEDED FOR ANY COMPONENT, USE AN APPROVED NIOSH/OSHA RESPIRATOR. CONSULT YOUR SAFETY EQUIPMENT SUPPLIER AND THE OSHA REGULATION, 29 CFR 1910.134 FOR RESPIRATOR REQUIREMENTS.

WORKPLACE CONSIDERATIONS:

VENTILATION: PROVIDE SUFFICIENT MECHANICAL VENTILATION (LOCAL OR GENERAL EXHAUST) TO MAINTAIN EXPOSURE BELOW PEL AND TLV. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. CHECK ALL LOW AREAS (BASEMENTS, SUMPS, ETC.) FOR VAPOR BEFORE ENTERING.

SAFETY STATIONS:

PROVIDE EYEWASH AND SOLVENT IMPERVIOUS APRON IF BODY CONTACT WITH PRODUCT MAY OCCUR. BARRIER CREAMS MAY BE USED.

CONTAMINATED EQUIPMENT:

WASH CONTAMINATED CLOTHING BEFORE REUSE.
STORAGE SEGREGATION: STORE AWAY FROM CAUSTICS AND OXIDIZERS.

SPECIAL HANDLING / STORAGE: KEEP CONTAINERS AWAY FROM EXCESSIVE HEAT AND FREEZING. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE AT TEMPERATURES ABOVE 120F.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING VAPORS MAY BE HARMFUL OR FATAL.

DOT CLASS: SEE SECTION I
UN REGISTER: SEE SECTION I

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE IF THEY ARE APPROPRIATE.