## MATERIAL SAFETY DATA SHEET | -----I

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION |-----|

THIS MATERIAL SAFETY DATA SHEET IS AVAILABLE IN SPANISH UPON REQUEST.

LOS DATOS DE SEGURIDAD DEL PRODUCTO PUEDEN OBTENERSE EN ESPANOL SI LO REOUIERE.

PRODUCT NAME : Original Contact Cement

: 7079800262, 7079800271, 7079800272, 7079800273, UPC NUMBER

7079800274, 7079800277

PRODUCT USE/CLASS : Contact Adhesive

24 HOUR EMERGENCY: MANUFACTURER:

DAP INC. TRANSPORTATION: 1-800-535-5053 (352-323-3500) 2400 BOSTON STREET MEDICAL : 1-800-327-3874 (513-558-5111)

BALTIMORE, MD 21224

PREPARE DATE : 08/11/1999 GENERAL INFORMATION:

REVISION NO. : 15 DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

REVISION DATE: 08/11/1999

|-----| SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS |-----|

----- CHEMICAL NAME ----- CAS NUMBER RANGE \_\_\_\_\_\_ 108-88-3 0.1 Toluene 50.0-60.0 % Aliphatic Petroleum Distillate 02 64742-89-8 10.0-20.0 % 03 Methyl ethyl ketone 78-93-3 10.0-20.0 %

----- EXPOSURE LIMITS -----ACGIH OSHA ITEM TLV-TWA TLV-STEL PEL-TWA PEL-CEILING TLV-TWA \_\_\_\_\_\_ 100 ppm. 01 50 ppm. N.E.

N.E. N.E. N.E. 400 ppm 02 400 ppm N.E. N.E. N.E. 03 200 ppm 200 ppm 300 ppm NO

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

-----Product Name: Original Contact Cement Revision Date: 08/11/1999 \_\_\_\_\_ SECTION 3 - HAZARDS IDENTIFICATION \_\_\_\_\_

EMERGENCY OVERVIEW: DANGER! Flammable liquid and vapor. Vapor harmful. Harmful

If inhaled. Harmful or fatal if swallowed. Vapors may cause flash fire or explosion. Aspiration hazard if swallowed - can enter lungs and cause damage.

## POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May irritate skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

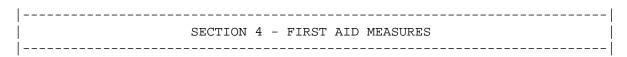
EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. If ingested, this product may cause vomiting, diarrhea, and depressed respiration.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: 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. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: None known.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION



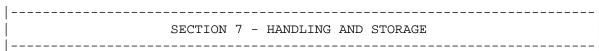
EYE CONTACT: Flush with large quantities of water until irritation subsides. Contact a physician.

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.

NOTE: Only trained personnel should administer artificial respiration or give oxygen.

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SECTION 4 - FIRST AI	D MEASURES
' INGESTION: DO NOT INDUCE VOMITING. If ir contact a physician or Regional Poison Con	
COMMENTS: Call 1-800-327-3874 if irritati arise from any exposure.	on persists or complications
   SECTION 5 - FIRE FIGHT 	ING MEASURES
FLASH POINT: 21 F. minimum SETAFLASH CLOSED CUP)	LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.
AUTOIGNITION TEMPERATURE: N.E.	
EXTINGUISHING MEDIA: CO2 DRY CHEMICAL F	OAM
UNUSUAL FIRE AND EXPLOSION HAZARDS: Flamma readily ignite at room temperature. Vapor with air. Vapors can travel long distances flashback.	s may form an explosive mixture
Containers may explode if exposed to extre ignition: heat, electrical equipment, spar contact with oxidizing or caustic materi	ks, and flames. Do not put in
SPECIAL FIREFIGHTING PROCEDURES: Full proself-contained breathing apparatus, is recombustion products. Cool exposed contain	ommended to protect from
SECTION 6 - ACCIDENTAL RE	LEASE MEASURES
' SPILL OR LEAK PROCEDURES: Immediately elim spill area. Use absorbent material or scra into containers.	_
CECTION 7 HANDIING	AND GEODAGE



HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep away from heat, spark, and flame. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

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SECTION 7 - HANDLING AND STORAGE

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally. Construction and repair activities can adversely affect indoor air quality. Consult with the occupants or other representative(i.e. maintenance,

building manager, industrial hygienist, or safety officer) to determine ways to minimize any impact.

|-----| SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION \_\_\_\_\_\_

ENGINEERING CONTROLS: 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 vapors before entering.

RESPIRATORY PROTECTION: 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. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Solvent impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

|-----| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ------

BOILING RANGE : 170 - 180 F VAPOR DENSITY : Is heavier than air

ODOR : Hydrocarbon

APPEARANCE : Tan Mobile Liquid EVAPORATION RATE: Is faster than

Butyl

SOLUBILITY IN H2O: Negligible Acetate

SPECIFIC GRAVITY : 0.8903

VAPOR PRESSURE : 70 mm Hg @ 68F.

PHYSICAL STATE : Liquid

(See Section 16 for abbreviation legend)

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SECTION 10 - STABILITY AND REACTIVITY		
CONDITIONS TO AVOID: Excessive heat and freezing.		
INCOMPATIBILITY: Strong oxidizers and caustics.		
HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products,	i.e. (	COx
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.		
STABILITY: This product is stable under normal storage conditions.		
   SECTION 11 - TOXICOLOGICAL PROPERTIES 		
No product toxicological information is available.		
SECTION 12 - ECOLOGICAL INFORMATION		
No Information.		
SECTION 13 - DISPOSAL CONSIDERATIONS		
WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State Local Standards. Discarded material should be incinerated at a pefacility. Liquids cannot be disposed of in a landfill. Do not recontainer. State and Local regulations/restrictions are complex a differ from Federal regulations. Responsibility for proper waste dis with the owner of the waste.	rmitte use en nd may	ed mpty Y
EPA WASTE CODE - If discarded (40 CFR 261): D001-Ignitable.		
SECTION 14 - TRANSPORTATION INFORMATION		
DOT PROPER SHIPPING NAME: Adhesive(Consumer Commodity*)		
DOT HAZARD CLASS: 3(ORM-D*)		

\* For containers of 1 gallon or less.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

DOT UN/NA NUMBER: UN 1133(NONE\*) PACKING GROUP: III(NONE\*)

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SECTION 15 - REGULATO	DRY INFORMATION		_
U.S. FEDERAL REGULATIONS: AS FOLLOWS -			
OSHA: Hazardous by definition of Hazard 1910.1200)	Communication Standard	l (29 CFR	
SARA SECTION 313: This product contains the following substrequirements of Section 313 of Title III Reauthorization Act of 1986 and 40 CFR I	of the Superfund Amen		
Toluene Methyl ethyl ketone	CAS NUMBER W 108-88-3 78-93-3	·	%
TOXIC SUBSTANCES CONTROL ACT: This product contains the following chem reporting requirements of TSCA 12(B) if			
CHEMICAL NAME No information is available.	CAS NUMBER		
NEW JERSEY RIGHT-TO-KNOW: The following materials are non-hazardou components in this product:	s, but are among the t	op five	
CHEMICAL NAME Polychlorinated Rubber Polychlorinated Rubber	CAS NUMBER TSRN-618608-5001P TSRN-618608-5023P		
PENNSYLVANIA RIGHT-TO-KNOW: The following non-hazardous ingredients greater than 3%:	are present in the pro	duct at	
Polychlorinated Rubber Phenolic resin	CAS NUMBER proprietary proprietary		
CALIFORNIA PROPOSITION 65: WARNING: The chemical(s) noted below and known to the state of California to cause reproductive harm:			
CHEMICAL NAME Toluene	CAS NUMBER 108-88-3		

## C

INTERNATIONAL REGULATIONS: AS FOLLOWS -

 ${\tt CANADIAN\ WHMIS:\ This\ MSDS\ has\ been\ prepared\ in\ compliance\ with\ Controlled}$ Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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SECTION 16 - OTHER INFORMATION

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 02/01/1997

VOC less water, less exempt solvent: 700-710 gm/1(78-79%)

VOC material: 700-710 gm/l

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED

PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM

SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986

STEL - SHORT TERM EXPOSURE LIMIT

TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)

VOC - VOLATILE ORGANIC COMPOUND NJRTK - NEW JERSEY RIGHT TO KNOW LAW

N.D. - NOT DETERMINED

Supersedes MSDS# 30503

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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 the recommendations in specific context of the intended use and determine if they are appropriate.

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