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**SECTION I**

TRADE NAME.....: THERMAL PAPER, ALL GRADES  
 MSDS NUMBER .....: CEHS-31  
 SYNONYMS .....: THERMAL PAPER, DIRECT THERMAL PAPER  
 MANUFACTURER .....: APPLETON PAPERS INC  
 EMERGENCY PHONE ..: 1-920-734-9841  
 OTHER CALLS .....: 1-800-922-1723 (TECHNICAL SERVICES)  
 ADDRESS .....: 825 E. WISCONSIN AVENUE  
 CITY .....: APPLETON STATE ..:WI ZIP ..:54911  
 MSDS PREPARED BY .: PRODUCT SAFETY DEPARTMENT  
 DATE PREPARED ....: 11-15-96 REVISION DATE:06-10-03 (HMIS Flammability Rating Changed)

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<i>INGREDIENT NAME</i>	<i>CAS#</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>OTHER</i>	<i>%</i>
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 NONE. APPLETON DIRECT THERMAL PAPER DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL SUBJECT TO DISCLOSURE REQUIREMENTS OF THE HAZARD COMMUNICATIONS STANDARD.  
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\*\*\*\*\* ADDITIONAL INFORMATION \*\*\*\*\*

- (1) NON-HAZARDOUS COMPONENT AS DEFINED BY 29 CFR 1910.1200. LISTED HERE PER NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW ACT.
- (2) LISTED ON MASSACHUSETTS SUBSTANCE LIST

NE = NOT ESTABLISHED

**SECTION III - CHEMICAL CHARACTERISTICS**

<i>BOILING POINT</i>	<i>MELTING POINT</i>	<i>FREEZING POINT</i>	<i>SPECIFIC GRAVITY (H2O = 1)</i>
NA	NA	NA	1.02

TRADE NAME: APPLETON DIRECT THERMAL PAPER

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**SECTION III - CHEMICAL CHARACTERISTICS, CONTINUED**

<i>PERCENT VOLATILE by VOLUME</i>	<i>THEORETICAL VOC CONTENT (percent of WEIGHT)</i>	<i>WEIGHT PER GALLON</i>
NA	NA	NA

*pH (Conc):* NA (NA = NOT APPLICABLE)

<i>VAPOR PRESSURE (mm of Hg)</i>	<i>VAPOR DENSITY (Air = 1)</i>	<i>DENSITY</i>	<i>EVAPORATION RATE Basis (BUTYL ACET=1)</i>
NA	< 1	NA	NOT DETERMINED

<i>SOLUBILITY IN WATER</i>	<i>REACTIVITY IN WATER</i>
NA	NOT REACTIVE

*APPEARANCE AND ODOR:*  
PAPER IN ROLL OR SHEET FORM, FAINT ODOR

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<i>FLASH POINT</i>	<i>METHOD</i>	<i>FLAMMABLE LIMITS IN AIR (%)</i>	<i>AUTO-IGNITION TEMPERATURE</i>
>400F	----	UPPER = ND      LOWER = ND	ND

*HMIS CODES:* (HEALTH/FLAMMABILITY/REACTIVITY/PROTECTION) = 0/1/0/-

*EXTINGUISHER MEDIA:* WATER, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL

*SPECIAL FIRE FIGHTING PROCEDURES:* NONE KNOWN TO APPLETON PAPERS

*UNUSUAL FIRE AND EXPLOSION HAZARDS:* NONE KNOWN TO APPLETON PAPERS

\*\*\*\*\* ADDITIONAL INFORMATION \*\*\*\*\*  
NE = NOT ESTIMATED  
ND = NOT DETERMINED

**SECTION V - REACTIVITY DATA**

*IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)?* Y

*CONDITIONS TO AVOID (REGARDING STABILITY):* NONE

*INCOMPATIBILITY (MATERIALS TO AVOID):* STRONG OXIDIZERS

*HAZARDOUS DECOMPOSITION PRODUCTS:* NONE KNOWN TO APPLETON PAPERS

*HAZARDOUS POLYMERIZATION POSSIBLE (Y/N) ?* N

*CONDITIONS TO AVOID (REGARDING POLYMERIZATION):* NONE KNOWN TO APPLETON PAPERS

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**SECTION VI - HEALTH HAZARDS**

*ROUTES OF ENTRY:* SKIN ABSORPTION (INGESTION UNLIKELY)

*SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE:*

SKIN REDDENING AND/OR IRRITATION (PAPER CAN ABSORB SKIN OILS).

*CHRONIC OVEREXPOSURE:*

REPEATED OR PROLONGED OVER-EXPOSURE TO PRODUCT MAY CAUSE IRRITATION OF SKIN AND EYES (PAPER DUST).

*CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN*

*NATIONAL TOXICOLOGY PROGRAM*

*IARC MONOGRAPHS*

*OSHA*

(Y/N): N

(Y/N): N

(Y/N): N

*MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:*

NONE KNOWN TO APPLETON PAPERS

\*\*\*\*\* *EMERGENCY AND FIRST AID PROCEDURES* \*\*\*\*\*

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*   EMERGENCY PHONE NUMBER OF MANUFACTURER:  NA
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*  INHALATION:   IF AFFECTED, MOVE TO FRESH AIR.
*
*  EYE CONTACT:  IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF
*                 CLEAN RUNNING WATER.
*
*  SKIN CONTACT: IF PROBLEMS OCCUR, FLUSH WITH CLEAN WATER. WASH
*                 WITH SOAP AND WATER. USE UNMEDICATED SKIN CREAM FOR DRY SKIN.
*
*  INGESTION:    IF INGESTED, DO NOT INDUCE VOMITING. DRINK A LARGE AMOUNT
*                 OF WATER OR MILK AND CALL A PHYSICIAN.
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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

HAZARD CLASS\* . . . . . : NONE

HAZARD CLASS\*\* . . . . . : NA

US DOT ID NUMBER . . . : NONE

US DOT ID NUMBER . . . : NA

UN/NA NUMBER . . . . . : NONE

UN/NA NUMBER . . . . . : NA

WHMIS CLASS/DIVISION: NONE

*PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:*

DO NOT STORE OR HANDLE PRODUCTS IN THE PRESENCE OF HEAT, SPARKS, OR OPEN FLAME.

TRADE NAME: APPLETON DIRECT THERMAL PAPER

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE, CONTINUED**

*OTHER PRECAUTIONS:* DO NOT TAKE INTERNALLY.

*STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:*

REMOVE IGNITION SOURCES. CONTAIN SPILL. PICK UP AND CONTAINERIZE FOR SUBSEQUENT DISPOSAL/RECYCLE. FLUSH AREA WITH WATER TO REMOVE PRODUCT RESIDUE, DIRECTING FLUSHATE TO THE SEWER.

*WASTE DISPOSAL METHODS:*

DISPOSE OF IN ACCORDANCE WITH APPLICABLE STATE OR COMMUNITY REGULATIONS. RECYCLE IF POSSIBLE.

**SECTION VIII - CONTROL MEASURES**

*RESPIRATORY PROTECTION:*

NOT REQUIRED IN NORMAL USE

*VENTILATION REQUIREMENTS:*

LOCAL OR MECHANICAL EXHAUST IS SATISFACTORY

*LOCAL EXHAUST:*

NOT REQUIRED

*MECHANICAL:*

SATISFACTORY

*SPECIAL:*

NOT REQUIRED UNDER NORMAL USE CONDITIONS

*OTHER:*

NOT APPLICABLE

*PROTECTIVE GLOVES:*

NOT REQUIRED IN NORMAL USE

*EYE PROTECTION:*

NOT REQUIRED IN NORMAL USE

*OTHER PROTECTIVE CLOTHING OR EQUIPMENT:*

CLOTHING PROTECTION (PAPER CUTS)

*WORK/HYGIENIC PRACTICES:*

KEEP WORK AREA CLEAN.

HMIS HAZARD RATING:

0 = HEALTH

1 = FLAMMABILITY

0 = REACTIVITY

- = PERSONAL PROTECTIVE EQUIPMENT