

## MATERIAL SAFETY DATA SHEET

### Section 1. Identification of the Preparation / Company

Product Name: TechMark PenTick Plus Swiper™

Manufacturer: Appleton Papers Inc.  
825 East Wisconsin Avenue  
Appleton, WI 54911 USA

Information Phone: 920-991-8863

Emergency Phone: 800-424-9300 (Chemtrec) International: 703-527-3887

Date of Preparation/Revision: 11/03/06

Product Use: Document fraud protection.

### Section 2. Composition / Information on Ingredients

Component	CAS Number/ EINECS Number	EU Classification (67/548/EEC)
Isopropanol	67-63-0 / 200-661-7	F, Xi R11, R36, R67
Oxalic Acid	144-62-7 / 205-634-3	Xn R21/22

Refer to Section 16 for Full Text of EU Classes and R Phrases

### Section 3 Hazards Identification

#### Emergency Overview

The hazardous liquid in this product is absorbed onto a felt substrate. Each pen contains 3 mL of flammable liquid. Contact with the pen contents causes severe eye irritation and may cause skin irritation. May be harmful if absorbed through the skin. Inhalation of vapors may cause respiratory irritation and central nervous system effects such as headache and dizziness. Ingestion is unlikely due to the product form, but may be harmful if swallowed. May cause kidney damage.

Refer to Section 11 for additional information.

**Product Description:** Felt-tip pen containing a clear, colorless liquid with an alcohol odor.

**US OSHA Classification (29CFR1910.1200):** Flammable, Irritant, Target Organ Effects

**Canadian WHMIS Classification:** Class B-2 (Flammable Liquid), Class D-2-B (Eye and Skin Irritant)

**EU Classification (1999/45/EC):** Xi Irritant, F Highly Flammable, R11, R36, R67

Refer to Section 16 for Full Text of EU Classes and R Phrases

### Section 4 First Aid Measures

**Eyes:** Remove contact lenses if present. Flush eyes thoroughly with water for 15 minutes holding the eye lids open to be sure the material is washed out. Get immediate medical attention.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. If irritation or symptoms of exposure develop, seek medical attention.

**Ingestion:** Ingestion is an unlikely route of exposure with this product. If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Give one or two glasses of water to drink. Never induce vomiting or give diluents to someone who is unconscious, having convulsions, or who cannot swallow. Get immediate medical attention.

**Inhalation:** Inhalation overexposure is very unlikely with this product. If irritation or other symptoms occur, remove victim to fresh air and obtain medical advice.

**Section 5. Fire Fighting Measures**

**Flash Point:** 54°F (12°C)      **Explosive Limits:** LEL: 2.0% (isopropanol)      UEL: 12.7% (isopropanol)

**Autoignition Temperature:** 750°F (399°C)

**Extinguishing Media:** Use water spray, alcohol foam, carbon dioxide, or dry chemical.

**Unusual Fire and Explosion Hazards:** Each pen contains 3 mL of flammable liquid. This product presents a slight fire hazard.

**Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

**Hazardous Combustion Products:** Burning may produce carbon dioxide, carbon monoxide and formic acid.

**Section 6. Accidental Release Measures**

Pick up pen for use or disposal. If pen is damaged and contents are released, wear protective gloves and wipe up liquid and felt substrate with absorbent material and place in an appropriate container for disposal. If large numbers of pens are damaged, eliminate all ignition sources and ventilate area. Clean residue and surfaces with water. Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

Refer to Section 13 for disposal information.

**Section 7. Handling and Storage**

**Handling:** Avoid contact with pen contents. Avoid breathing vapors. Wash thoroughly after handling. Keep product away from excessive heat. Keep pen closed when not in use. Do not smoke while using product. Keep product away from heat and flames.

**Storage:** Store product in a cool; dry, well ventilated place away from direct sunlight and excessive heat.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Limits:**

Component	Exposure Limit	Source
Isopropanol	200 ppm Time Weighted Average	ACGIH
	400 ppm Short Term Exposure Limit	ACGIH
	400 ppm Time Weighted Average	OSHA
Oxalic Acid	1 mg/m <sup>3</sup> Time Weighted Average	ACGIH and OSHA
	2 mg/m <sup>3</sup> Short Term Exposure Limit	ACGIH

**Engineering Controls:** No special ventilation is required for normal use.

**Respiratory Protection:** None required for normal use.

**Eye Protection:** Avoid eye contact. Wear safety glasses or goggles if needed to prevent eye contact.

**Skin Protection:** Avoid direct contact with pen contents. If needed, impervious gloves such as butyl rubber, natural rubber or neoprene can be worn.

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**Section 9. Physical and Chemical Properties**

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**Appearance and Odor:** Felt-tip pen containing a clear, colorless liquid with an alcohol odor.

The following data refers to the liquid pen contents.

<b>Solubility in Water:</b> Miscible	<b>Boiling Point:</b> 180°F ( 82°C)
<b>pH:</b> Not available	<b>Melting Point:</b> Not Applicable
<b>Specific Gravity:</b> <1	<b>Vapor Density:</b> 2.1 (isopropanol)
<b>Evaporation Rate:</b> 2.83 (BuAc=1)	<b>Vapor Pressure:</b> 33 mmHg @ 20°C (isopropanol)
<b>Partition Coefficient:</b> Not Available	<b>Flash Point:</b> 54°F (12°C)

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**Section 10. Stability and Reactivity**

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**Stability:** Stable.

**Incompatibility:** Pen contents are incompatible with strong oxidizing agents, aldehydes, chlorine, ethylene oxide, acids, isocyanates, alkalis, furfuryl alcohol and silver compounds.

**Hazardous Decomposition Products:** Products of combustion include carbon dioxide, carbon monoxide and formic acid.

**Hazardous Polymerization:** Will not occur.

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**Section 11. Toxicological Information**

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**Health Hazards:** The following information refers to the liquid contents of the pen. Since each pen contains only 3 mL of solution, overexposure by inhalation is very unlikely. All liquid in the pen is absorbed on a felt substrate, therefore swallowing a significant amount of the liquid is very unlikely.

**Inhalation:** Inhalation of vapors, mists, or aerosols may cause nose and throat irritation with the possibility of central nervous system depression. Symptoms of central nervous system depression include headache, dizziness, drowsiness, nausea and unconsciousness.

**Skin Contact:** May cause irritation, seen as localized reddening and swelling. Isopropanol and oxalic acid may be absorbed through the skin causing effects similar to inhalation and ingestion.

**Eye Contact:** May cause severe eye irritation. Corneal injury and eye damage are possible.

**Ingestion:** Swallowing may cause gastrointestinal irritation with nausea, vomiting and diarrhea and central nervous system depression with symptoms similar to those described under inhalation. Oxalic acid is toxic. When ingested it removes calcium from the blood in the form of calcium oxalate which then obstructs the renal tubules. Large amounts swallowed may cause nausea, vomiting, shock and kidney damage with bloody urine. The estimated fatal dose for oxalic acid is 5 to 15 grams.

**Chronic Health Effects:** Prolonged or repeated skin contact may cause dermatitis. May cause kidney damage.

**Medical Conditions Aggravated By Exposure:** Individuals with preexisting diseases of the kidney, skin or central nervous system may have increased susceptibility to the toxic effects of excessive exposure.

**Carcinogenicity:** None of the components is listed as a potential carcinogen by IARC, NTP or OSHA.

**Mutagenicity:** Isopropanol is mutagenic in some test systems.

**Reproductive Toxicity:** Isopropanol and oxalic acid have been found to cause adverse reproductive effects in laboratory animals.

**Acute Toxicity Values:**

Isopropanol: Oral rat LD50 - 5045 mg/kg  
Skin rabbit LD50 – 12.8 g/kg  
Inhalation rat LC50 – 16,000 ppm/8 hr  
Oxalic Acid: Oral rat LD50 - 375 mg/kg

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**Section 12. Ecological Information**

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This material is not expected to be toxic to aquatic life. Isopropanol biodegrades moderately in the environment. Isopropanol: LC50/96 hour values in fish are >100 mg/L. Oxalic Acid LC50/96 hour values in fish are 10-100 mg/L.

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**Section 13. Disposal Considerations**

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Dispose in accordance with all local, state/provincial and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

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**Section 14. Transport Information**

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**Transportation Classification:** Not Regulated for Transportation (per 49CFR 172.102, Special Provision 47, IATA Special Provision A46 and IMDG Code Special Provision 216).

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**Section 15. Regulatory Information**

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**United States Regulations:**

**OSHA Status:** Hazardous – a MSDS is required for this product.

**EPA SARA Regulations:**

SARA 311/312 Hazard Categories:  
Y – Fire Hazard  
N – Sudden Release of Pressure  
N – Reactivity  
Y – Acute Health  
Y – Chronic Health

**EPA SARA Regulations:** This does not contain chemicals above de minimus concentrations subject to the notification or reporting requirements of SARA 313.

**CERCLA Section 103:** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations



**RCRA Status:** This product, as sold, would meet the definition of a RCRA as a hazardous waste, Ignitable D001.

**TSCA Status:** All of the components of this product are listed on the EPA TSCA inventory. Isopropanol is subject to section 12(b) export notification.

**California Proposition 65:** This product does not contain chemicals regulated under California Proposition 65.

**International Regulations:**



**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List.  
**Canadian WHMIS Classification:**

 	Class D - Division 2 - Subdivision B (Toxic material causing other chronic effects) Class B - Division 4 (Flammable Solid)
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This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**European Inventory of Existing Commercial Chemical Substances (EINECS):** All of the ingredients are listed on the EINECS inventory.

**European Community Labeling:**

 	R11 Highly Flammable R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness. S16 Keep away from sources of ignition – no smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S51 Use only in well ventilated areas. S60 This product and its container must be disposed of as hazardous waste.
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**Australia:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

**Japan MITI:** All of the components are existing chemical substances as defined in the Chemical Substance Control Law.

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**Section 16. Other Information**

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**NFPA RATING (NFPA 704)**      FIRE: 3              HEALTH: 2              REACTIVITY: 0

**HMIS RATING**                      FIRE: 3              HEALTH: 2              REACTIVITY: 0

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

- F Highly Flammable
- Xi Irritant
- Xn Harmful
- R11 Highly Flammable
- R21/22 Harmful in contact with the skin and if swallowed.
- R36 Irritating to eyes.
- R67 Vapours may cause drowsiness and dizziness.

**Effective Date:** 11/03/06

**Supersedes Date:** 4/11/06

**Revision to Sections:** 1 – product name; added international emergency contact number

**MSDS Number:** SEC-0007

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