

MATERIAL SAFETY DATA SHEET

Marconi Data Systems Inc.
P.O. Box 388
707 East B Street
Belleville, IL
62222 USA

Product Name: Spray Stencil Ink, All Colors
Document Number: 26471EN
Revision: B
Approval Date: December 8, 1999
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24 Hour Emergency Telephone: 800-535-5053 (within USA)
352-323-3500 (outside USA call collect)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Spray Stencil Ink, All Colors

Product Codes: 27004, 27005, 27006, 27007, 27008, 27009, 27010, 3U573, 3U574

General Use: Marking Ink for Printing Equipment

MANUFACTURER: Marconi Data Systems Inc.
P.O. Box 388
707 East B Street
Belleville, IL 62222, USA
Telephone: 618-234-1122
Fax: 618-234-1529

24 HOUR EMERGENCY TELEPHONE: 800-535-5053 (within USA)
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2. COMPOSITION/INFORMATION ON INGREDIENTS*

<u>Component</u>	<u>CAS Number</u>	<u>% by Weight</u>
Acetone	67-64-1	40-50%
Diacetone alcohol	123-42-2	3-6%
Stoddard solvent	8052-41-3	3-7%
Liquified petroleum gas	68476-85-7	30-40%
VM & P naptha	8032-32-4	3-7%
Other ingredients	Proprietary	10-20%

*See Section 8 for exposure limit information.

See Section 11 for toxicity information.

See Section 15 for regulatory information.

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3. HAZARDS IDENTIFICATION

**FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL
INFOTRAC - DAY OR NIGHT
800-535-5053 (Inside USA)
352-323-3500 (Call Collect Outside USA)**

EMERGENCY OVERVIEW: Aerosol with aromatic odor. Extremely flammable. Avoid inhalation. Vapor exposure may cause shortness of breath, dizziness, lightheadedness, central nervous system (CNS) effects, or liver and kidney effects. Vapor may irritate eyes.

POTENTIAL HEALTH EFFECTS:

INHALATION: Prolonged exposure may cause CNS depression. Symptoms may include intoxication, shortness of breath, dizziness, or lightheadedness, headache, nausea or coma.

EYE CONTACT: Vapor may be irritating. Symptoms can include scratchiness, redness or burning.

SKIN CONTACT: May cause irritation. Prolonged contact can cause irritation, defatting of skin and possibly dermatitis.

INGESTION: Unlikely route of entry. Effects can include nausea and vomiting.

CHRONIC: Unknown.

4. EMERGENCY AND FIRST AID MEASURES

INHALATION: If exposed to excessive levels of vapor or mist, remove to fresh air and get immediate medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water. Get immediate medical attention.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting, but give one or two glasses of water to drink and

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get immediate medical attention.

5. FIRE-FIGHTING MEASURES AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: Not applicable for aerosol mixture

FLAMMABLE LIMITS: Lower: 1.1% Upper: 12.8%

AUTOIGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires: alcohol foam, universal foam or water spray for large fires.

SPECIAL FIRE-FIGHTING PROCEDURES: Remove all ignition sources.

UNUSUAL FIRE and EXPLOSION HAZARDS: Flammable liquid and escaping vapors may ignite which can result in a flash fire. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce smoke, oxides of carbon, oxides of nitrogen and possibly toxic hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Consult an expert on the disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

SPILL: Remove sources of ignition. Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

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7. HANDLING AND STORAGE

Avoid breathing vapor. Avoid contact with skin and eyes. Avoid ignition sources. Keep containers closed. Store in a cool, dry place away from heat and light. Keep from freezing. Store between 40 - 120 degrees Fahrenheit (4 - 49 degrees Celsius). Follow all regulations for the storage of aerosols.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS:

Acetone:	OSHA PEL: 750 ppm (TWA) OSHA STEL: 1000 ppm (ceiling) ACGIH TLV: 750 ppm (TWA)
Diacetone alcohol:	OSHA PEL: 50 ppm (TWA) ACGIH TLV: 50 ppm (TWA)
Stoddard solvent:	OSHA PEL: 100ppm
Liquified petroleum gas:	OSHA PEL: 1000 ppm (TWA)
VM & P naphtha:	OSHA PEL: 300 ppm (TWA)

ENGINEERING CONTROLS (VENTILATION): Local exhaust recommended to control exposure which may result from operations that generate aerosol vapors or mists.

PERSONAL PROTECTION:

RESPIRATORY: Respiratory protection equipment suitable to work conditions and environment.

PROTECTIVE GLOVES: For operations where contact can occur, wear impervious gloves.

EYE PROTECTION: Wear chemical splash goggles or shielded safety glasses. An eye wash facility should be available.

OTHER: For operations where contact can occur, wear clothing to limit skin contact.

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9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Aerosol of various colors	ODOR: Aromatic solvent odor
VAPOR PRESSURE: Not available	FREEZING POINT: Not available
SPECIFIC GRAVITY: approx. 0.72-0.77	BOILING POINT: -44 to 406°F (-42 to 206°C)
SOLUBILITY in water: Slightly	VAPOR DENSITY: Heavier than air
pH: Not available	PERCENT VOLATILE: Not available
EVAPORATION RATE: > 1.0	VISCOSITY: Not available
VOC: Not available	

10. STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Excessive heat
INCOMPATIBILITY: None known
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Thermal decomposition may produce smoke, oxides of carbon, oxides of nitrogen and possibly toxic hydrocarbons.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY - Products represented by this material safety data sheet have not been tested for acute toxicological effects. The available toxicity data for the hazardous ingredients listed in Section 2 is given.

INHALATION EFFECTS:

Acetone: LC₅₀(rat) = 50,100 mg/m³.
Diacetone alcohol: Rats exposed to 1065 ppm in air for 8 hours had no deaths.
Stoddard solvent: LC₅₀(rat) > 5500 mg/m³.
VM & P naphtha: LC₅₀(rat) = 3400 ppm (4 hour).

EYE EFFECTS:

Acetone: Moderately irritating.
Diacetone alcohol: Moderately irritating.
Stoddard solvent: Moderately irritating.
VM & P naphtha: Moderately irritating.

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SKIN EFFECTS:

Acetone: Mildly irritating.

Diacetone alcohol: Mildly irritating. Dermal LD₅₀(rabbit) = 13.6 g/kg.

Stoddard solvent: Dermal LD₅₀(rabbit) > 3.0 g/kg.

ORAL EFFECTS:

Acetone: Oral LD₅₀(rat) = 5.8 g/kg.

Diacetone alcohol: Oral LD₅₀(rat) = 4.0 g/kg.

Stoddard solvent: Oral LD₅₀(rat) > 5.0 g/kg.

SUBCHRONIC EFFECTS: Products represented by this material safety data sheet have not been tested for subchronic toxicological effects. In an inhalation study using diacetone alcohol, rats received doses up to 950 ppm for 6 hr/day, 5 day/wk for 6 weeks. Kidney and liver damage were observed. In another study, rats received 40 mg/Kg/day of diacetone alcohol in their drinking water for 30 days. Kidney and liver damage were observed. The significance of these studies to humans is not known.

CHRONIC EFFECTS/CARCINOGENICITY: Products represented by this material safety data sheet have not been tested for chronic toxicological effects.

Components Listed As Carcinogens By Regulatory Agencies

OSHA: None listed

IARC: None listed

NTP: None listed

MUTAGENICITY: Products represented by this material safety data sheet have not been tested for mutagenic toxicological effects.

REPRODUCTIVE EFFECTS: Products represented by this material safety data sheet have not been tested for reproductive toxicological effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

CHEMICAL FATE INFORMATION: No data available.

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13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local laws and regulations. Do not reuse "empty" containers.

14. TRANSPORT INFORMATION

GROUND TRANSPORT (DOT): Consumer Commodity (ORM-D) [ERG 171].
AIR TRANSPORT (IATA): Consumer Commodity, 9, ID8000, [ERG 171].
OCEAN TRANSPORT (IMCO): Aerosols, Class 2, UN1950, Consumer Product, IMDG 2102, [EMS 2-13], [ERG 126].

15. REGULATORY INFORMATION

UNITED STATES

OSHA CLASSIFICATION: Hazardous

TSCA STATUS: In compliance

CERCLA: Acetone (RQ = 5,000 lbs.)

RCRA: It is up to the product user to determine, at the time of disposal, if the material should be classified as a hazardous waste.

SARA TITLE III §

311/312 HAZARD CATEGORIES: Immediate (acute) health hazard and physical (fire) hazard.
313 Reportable Ingredients: Acetone (<50%).

CLEAN AIR ACT OZONE DEPLETING SUBSTANCES: None

CLEAN AIR ACT HAZARDOUS AIR POLLUTANTS: None

VOLATILE ORGANIC COMPOUNDS (VOC'S): Not available

CONG/HEAVY METALS: Information available upon request

FDA Status: (21CFR) This product does not have approval as a food additive, either direct or indirect. When this product is applied to the outside surface of food containers and the container itself acts as a functional barrier so that there is no migration of the components of this product to food, then it would not be considered a food additive.

USDA STATUS: (9CFR) This product is not intended to be either a direct or indirect food additive.

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It is chemically acceptable for use on packaging material if it is separated from the meat or poultry by an effective barrier to the migration of the components of this product.

California Proposition 65 Status: (CCR Division 2 of Title 22, Sections 12000, et seq.) This product does not contain chemicals regulated by Proposition 65.

CANADA

WHMIS CLASSIFICATION: A, B5, D2A
DSL STATUS: In compliance

EUROPEAN UNION

CLASSIFICATION: Harmful - F; R12 S(2)-9-16-23-24-62
EINECS STATUS: In compliance

16. OTHER INFORMATION

HMIS RATINGS: Health - 2, Flammability - 3, Reactivity - 0

NFPA RATINGS: Health - 1, Flammability - 3, Reactivity - 0

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END OF MATERIAL SAFETY DATA SHEET