

# MATERIAL SAFETY DATA SHEET

Product Name: Secureline® Surgical Skin Marker Cat. No. 1000

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PRODUCT NAME (NUMBER):  
Secureline® Surgical Skin Marker  
CHEMICAL FAMILY: NA

D.O.T. HAZARD CLASS: NA

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REVISION DATE: 03/04/93  
REVIEWED ON 12/21/99: NO REVISIONS  
Revised on 6/1/07

### NFPA HAZARD RATING:

0 (least)	Health: 1
1 (slight)	Fire: 2
2 (moderate)	Reactivity: 0
3 (high)	
4 (extreme)	

### I. PRODUCT INFORMATION

Tradename: Secureline® Surgical Skin Marker Cat. No. 1000  
Chemical Name: NA  
Chemical Family: NA  
CAS Registry No.: NA

### II. HAZARDOUS INGREDIENTS (Exposure limits in air)

INGREDIENTS	CAS #	WEIGHT %	OSHA PEL	ACGIH TLV
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Secureline® Surgical Skin Marker is an "article" as defined in 29 CFR section 1910.2000. It will not result in exposure to a hazardous chemical under normal conditions of one time use only by professionals as a pre-operative surgical skin marking device. This device contains a chemical mixture (ink) known as crystal (gentian) violet (CAS # 548-62-9) in a water based dispersion agent which includes a proprietary amount of ethylene glycol (1-2, ethanediol CAS # 107-27-1) in excess of 1%.

NA = Not Applicable	LT = Less Than
NDA = No Data Available	GT = Greater Than
NE = Not Established	UNK = Unknown

### III. PHYSICAL DATA

Boiling Point: Ink: 221-225 F  
Vapor Pressure: NDA  
Vapor Density (Air=1) @ 20(C): NA  
Solubility in Water v/v @20 (C): Ink: 100%  
Appearance and Odor: Ink: violet liquid, odorless  
Specific Gravity (H2O = 1): Ink: 1.050  
Percent, Volatile by Volume (%): NDA  
Evaporation Rate (Butyl Acetate = 1): NE

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**PACKAGE FORM:** Basic sterile package is a paper box containing 10 markers. Each marker is constructed from various thermoplastic fittings consisting of a barrel, ink-filled reservoir, end plug, writing nib assembly, and protective cap. Each marker is accompanied by a paper ruler and sealed in a peel-package envelope. A master (shipping) pack contains six intermediate boxes each with ten boxes of 10's. Non-sterile product is bulk packaged in a single plastic bag of 100's per box.

### IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD	FLAMMABLE LIMITS	LEL	UEL
INK: none	INK: not flammable	NA	NA

In a fire situation, the package will burn. An individual marker has low flammability comparable to whole and will burn slowly when exposed to a high temperature open flame.

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, water spray.

**FIRE FIGHTING PROCEDURE-SPECIAL:** (For Bulk Packages) Wear self contained breathing apparatus and protective clothing for skin and eyes.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Burning produce may emit toxic fumes. (See section VI).

### V. HEALTH HAZARD DATA

**ROUTES OF ENTRY (INK):**

**INGESTION**  
**INHALATION**                                Not probable routes of exposure.  
**EYES**

**SKIN:** No information is available on systemic absorption after topical application. No evidence of adverse skin effects from available information on ethylene glycol.

**CARCINOGENICITY:** Crystal Violet has been reported to show mutagenic effects in bacteria. Ethylene glycol is considered an animal teratogen (experimental).

**SIGNS AND SYMPTOM'S OF EXPOSURE (CRYSTAL VIOLET):** Ataxia, nausea, vomiting, diarrhea, headache.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Individuals known to be hypersensitive to crystal (gentian) violet. Discoloration (tattooing) of skin may occur is applied to granulation tissue.

**IRRITATION DATA (INK):** Skin (rabbit) – primary irritation index of “0” (not irritant)

**TOXICITY DATA (INK):**                        Oral – nontoxic  
    Rat LD50, less than 2.50 grams/kilogram.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** Same as for ball point ink pens – not expected to be a problem. Ethylene glycol is toxic by ingestion. A lethal oral dose (human) is in the range of 15-100 grams. This corresponds by extrapolation to the glycol content found in 26 to 178 markers.

**EMERGENCY FIRST AID PROCEDURES (INK):** In case of contact by mouth or ingestion and patient is conscious, wash out mouth with water. Call a physician.

### VI. REACTIVITY DATA

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**STABILITY:** product is stable. Ink is sensitive to light and strong oxidizing agents.

**HAZARDOUS PRODUCTS OF COMBUSTION:** Carbon monoxide, carbon dioxide, nitrogen oxides, aldehydes, oxides of propylene and ethylene, perhaps other toxic vapors.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### VII. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE PRODUCT IS DAMAGED AND LEAKING:** Collect leaking and damaged markers in a separate container for disposal.

**WASTE DISPOSAL METHOD:** Dispose of markers in accordance with current statutory regional and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

- Store product in a cool place.
- Keep individual markers capped when not in actual use.
- Do not get marker ink in eyes, on clothing, or on food.

### VII. SPECIAL PROTECTION INFORMATION

**RESPIRATORY:** NA

**VENTILATION:** NA

**PROTECTIVE GLOVES:** As required in professional use.

**EYE PROTECTION:** NA

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** As required in professional use.

**WORK/HYGENIC PRACTICES:** Use rubbing alcohol (70% isopropanol), soap and water to remove any ink contamination from skin. Use aqueous detergent to remove stain from a non-porous surface.

**DISCLAIMER:**

The information in the Material Safety Data Sheet is offered for use by technically qualified personnel at their discretion and risk. The availability data is believed currently reliable, but the accuracy and completeness of the data is not guaranteed and no representation or warranty is either expressed or implied. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material.