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**RPD Product Information**

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**Item Number Description**

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467-102      + Securline Pen (each)

Precision Dynamics Corporation  
13880 Del Sur St.  
San Fernando, CA 91340-3490  
Telephone: (818) 897-1111  
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PRODUCT NAME [Number]:  
Securline® Surgical Skin Marker  
CHEMICAL FAMILY: N/A  
D.O.T. HAZARD CLASS: N/A

## MATERIAL SAFETY DATA SHEET

Revision Date: March 4, 1993  
Reviewed On: September 10, 1996: NO REVISIONS

### NFPA HAZARD RATING:

Least.....0	Health	0
Slight.....1	Fire:	1
Moderate...2	Reactivity:	0
High.....3		
Extreme....4		

### I. PRODUCT INFORMATION

Trademark: Securline® Surgical Skin Marker Cat. No. 1000  
Chemical Name: N/A  
Chemical Family: N/A  
CAS Registry No.: N/A

### II. HAZARDOUS INGREDIENTS [Exposure Limits In Air]

Ingredients	CAS No.	Weight %	OSHA Pel	AGGIH TLV
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Securline® 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. The device contains a chemical mixture [ink] known as crystal [gentian] violet [CAS No. 548-62-9] in a water based dispersion agent which includes a proprietary amount of ethylene glycol [1-2, ethanediol CAS No. 107-27-1] in excess of 1%.

### III. PHYSICAL DATA

Boiling Point: Ink: 221-225F  
Vapor Pressure: NDA  
Vapor Density [Air = 1] @ 20 [C]: NA  
Solubility In Water v/v @ 20 [C]: Ink: 100%  
Appearance and Odor: Ink: 1.050  
Percent, Volatile By Volume [%]: NDA  
Evaporation Rate [Butyl Acetate = 1]: NE

[N/A] Not Applicable  
[NDA] No Data Available  
[NE] Not Established  
[LT] Less Than  
[GT] Greater Than  
[UNK] Unknown

**Package Form:** Basic sterile package is a paper box containing 10 markers. Each marker is constructed from various thermoplastic fitments 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 & Method	Flammable Limits	LEL	UEL
Ink: None	Ink: Not Flammable	N/A	N/A

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

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, and 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 product may emit toxic fumes. [See section VI].

#### V. HEALTH HAZARD DATA

**Routes of Entry [Ink]:**

Ingestion

Inhalation

Eyes

No probable routes of exposure.

**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 SYMPTOMS OF EXPOSURE [CRYSTAL VIOLET]:** Ataxia, nausea, vomiting, diarrhea, and headache.

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

**IRRITATION DATE [INK]:** Oral - non toxic  
Rat LD50, > 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**

**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 dry place.
- ◊ Keep individual markers capped when not in actual use.
- ◊ Do not get marker ink in eyes, on clothing, or on food.

## **VIII. SPECIAL PROTECTION INFORMATION**

**RESPIRATORY:** N/A

**VENTILATION:** N/A

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

**EYE PROTECTION:** N/A

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

**WORK/HYGIENIC 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.

## **IX. SPECIAL PRECAUTIONS**

Not required under normal conditions of use.

**X. DOCUMENTATION**

Prepared By:	John Reardon
Approved By:	Kalyna Snylyk
Date Issued:	July 20, 1992
Reason for Issue:	Safety Data Revision

**DISCLAIMER:**

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