# MATERIAL SAFETY DATA SHEET

## RPD INFORMATION

| Address       | 5218 Barthel Industrial Drive  
 | Albertville, MN 55301 |
|---------------|-------------------------------|
| Website       | www.rpdinc.com                |
| Email         | sales@rpdinc.com              |
| Phone         | 763-497-2071 or 800-497-2071  |
| Fax           | 763-497-2295                  |

## RPD PRODUCT INFORMATION

RPD is an authorized distributor

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>467-102</td>
<td>Securline Pen</td>
</tr>
</tbody>
</table>
MATERIAL SAFETY DATA SHEET
Product Name: Secureline® Surgical Skin Marker Cat. No. 1000

Aspen Surgical Products Inc.
6945 Southbelt Dr. SE
Caledonia, MI 49316

Fax: (616) 698-7100
www.aspensurgical.com

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

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

D.O.T. HAZARD CLASS: NA

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)

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS #</th>
<th>WEIGHT %</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
</table>

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
NDA = No Data Available
NE = Not Established
LT = Less Than
GT = Greater Than
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

<table>
<thead>
<tr>
<th>FLAMMABILITY LIMITS</th>
<th>LEL</th>
<th>UEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>INK: none</td>
<td>INK: not flammable</td>
<td>NA</td>
</tr>
</tbody>
</table>

In a fire situation, the package will burn. An individual marker has low flammability compared 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 product may emit toxic fumes. (See section VI).

V. HEALTH HAZARD DATA

ROUTES OF ENTRY (INK):

INGESTION
INHALATION
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 SYMPTOMS 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 if 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 POLYMORIZATION: 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:

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