# **Aspen** Surgical

## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name Secureline Superfrost Marker Ink

Revision date 12-19-2011

Version # 01
CAS # Mixture

**Product use** Provides a permanent method of marking labels and containers

Manufacturer/Supplier Aspen Surgical Products, Inc

6945 Southbelt Dr. SE Caledonia, MI 49316

**Telephone number** 616-698-7100 **Emergency** 3E Hotline

24-Hour Emergency 1-855-350-3591

#### 2. Hazards Identification

Physical state Liquid.

Appearance Marker containing liquid ink

Emergency overview WARNING

HIGHLY FLAMMABLE LIQUID AND VAPOR.

May cause drowsiness or dizziness. Causes eye irritation.

**OSHA** regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Skin contact. Eye contact. Inhalation.

Eyes Health injuries are not known or expected under normal use. However: Causes eye irritation on

direct contact.

**Skin** May cause skin irritation. May be harmful if absorbed through skin.

**Inhalation** Due to the physical form of the product, the ingredients are not expected to present a hazard by

inhalation. However: Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.

Ingestion Not likely, due to the form of the product. May cause throat irritation, nausea, vomiting, and

central nervous system effects as noted under INHALATION.

Target organs Skin. Eyes. Central nervous system.

Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Prolonged exposure may cause chronic effects.

Signs and symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Contact may cause irritation with redness, tearing and pain.

Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
TRADE SECRET COMPONENT	Proprietary	Proprietary
TRADE SECRET SOLVENT	Proprietary	Proprietary

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops or persists.

**Skin contact** Wash off immediately with plenty of water. Get medical attention if irritation develops or persists.

Secureline Superfrost Marker Ink CPH MSDS NA

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention, if needed.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control

center. Immediately call a poison control center or doctor for treatment advice.

**Notes to physician** Treat symptomatically. Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Show this safety data

sheet to the doctor in attendance.

#### 5. Fire Fighting Measures

Flammable properties Contents of marker are highly flammable. Solvent vapors may form explosive mixtures with air.

**Extinguishing media** 

Suitable extinguishing

media

Water fog. Foam. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

**Protection of firefighters** 

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Firefighting

Specific methods

equipment/instructions

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods for containment

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop

leak if you can do so without risk.

Methods for cleaning up

Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the MSDS.

#### 7. Handling and Storage

Handling The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal

room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Avoid contact with skin

100 ppm

and eyes. Wear personal protective equipment. Do not empty into drains.

Storage Keep tightly closed. Store in a cool, dry, well-ventilated place. Keep away from heat, sparks and

open flame. Use care in handling/storage. Store in accordance with

local/regional/national/international regulation.

## 8. Exposure Controls / Personal Protection

## Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
TRADE SECRET	STEL	150 ppm
SOLVENT (Proprietary)		

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
TRADE SECRET	PEL	435 mg/m3
SOLVENT (Proprietary)		

TWA

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
TRADE SECRET	STEL	150 ppm	
SOLVENT (Proprietary)			

Secureline Superfrost Marker Ink CPH MSDS NA

Components	Туре	Value
	TWA	100 ppm
Canada. Ontario OELs. (	Ministry of Labor - Control of Exposure	e to Biological or Chemical Agents)
Components	Туре	Value
TRADE SECRET COMPONENT (Proprietary	TWA	110 mg/m3
		25 ppm
TRADE SECRET SOLVENT (Proprietary)	STEL	650 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm
Canada. Quebec OELS. (	Ministry of Labor - Regulation Respec	ting the Quality of the Work Environment)
Components	Туре	Value
TRADE SECRET SOLVENT (Proprietary)	STEL	651 mg/m3
SOLVENT (Proprietary)		•
SOLVENT (Proprietary)		150 ppm
SOLVENT (Proprietary)	TWA	150 ppm 434 mg/m3
SOLVENT (Proprietary)	TWA	· ·
SOLVENT (Proprietary)  Mexico. Occupational Ex		434 mg/m3
Mexico. Occupational Ex		434 mg/m3
Mexico. Occupational Ex Components TRADE SECRET	posure Limit Values	434 mg/m3 100 ppm
Mexico. Occupational Ex Components TRADE SECRET SOLVENT (Proprietary)	posure Limit Values Type	434 mg/m3 100 ppm <b>Value</b>
Mexico. Occupational Ex Components TRADE SECRET	posure Limit Values Type	434 mg/m3 100 ppm Value 655 mg/m3
Mexico. Occupational Ex Components TRADE SECRET	posure Limit Values Type STEL	434 mg/m3 100 ppm Value 655 mg/m3 150 ppm
Mexico. Occupational Ex Components TRADE SECRET	posure Limit Values Type STEL TWA	434 mg/m3 100 ppm Value 655 mg/m3 150 ppm 435 mg/m3

Personal protective equipment

**Eye / face protection** Avoid contact with eyes. Chemical goggles are recommended.

**Skin protection** Chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is

advisable.

Respiratory protection No specific recommendations due to the small quantities handled. Respiratory protection must be

used if air contamination exceeds acceptable level.

General hygiene

considerations personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Always observe good

## 9. Physical & Chemical Properties

Appearance Marker containing liquid ink

Color Various.

Odor Aromatic odor.
Odor threshold Not available.

Physical state Liquid.
Form Liquid.
pH 6

Melting pointNot available.Freezing pointNot available.Boiling point281 - 284

Flash point 81 °F (27.2 °C) Closed Cup

**Evaporation rate** Not available. **Flammability limits in air, upper,** Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Vapor pressure 6 mmHg (20°C)

Vapor density 3.7 Specific gravity 0.9

Solubility (water)

Partition coefficient

Negligible.

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

## 10. Chemical Stability & Reactivity Information

Chemical stabilityConditions to avoidStable under normal temperature conditions and recommended use.Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Strong acids. Strong oxidizing agents. Strong reducing agents.

**Hazardous decomposition** 

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

## 11. Toxicological Information

## Toxicological data

TRADE SECRET COMPONENT (Proprietary)

Acute Dermal LD50 Rabbit: 0.87 g/kg

Acute Inhalation LC50 Rat: 1530 mg/l 7 Hours

Acute Oral LD50 Mouse: 2.4 g/kg
TRADE SECRET SOLVENT (Proprietary)
Acute Oral LD50 Rat: 4300 mg/kg
TRADE SECRET COMPONENT (Proprietary)
Acute Oral LD50 Rat: 4.45 g/kg

**Acute effects** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination,

weakness, fatigue, mental confusion and blurred vision) and/or damage. May irritate eyes and

skin.

**Local effects** May cause respiratory tract irritation.

**Chronic effects** Prolonged exposure may cause chronic effects.

Carcinogenicity Not classified.

**ACGIH Carcinogens** 

TRADE SECRET SOLVENT (CAS Proprietary)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRADE SECRET SOLVENT (CAS Proprietary)

3 Not classifiable as to carcinogenicity to humans.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects Not classified.

Teratogenicity Not classified.

Symptoms and target Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

organs Eye and skin contact: Symptoms include itching, burning, redness and tearing.

#### 12. Ecological Information

#### **Ecotoxicological data**

Components Test Results

TRADE SECRET SOLVENT (Proprietary)

LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 8

mg/I 96 Hours

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Secureline Superfrost Marker Ink

CPH MSDS NA

Persistence and degradability

No data is available on the degradability of this product.

negradability

Bioaccumulation /

No data available.

Accumulation

Partition coefficient

Not available.

(n-octanol/water)

**Mobility in environmental** 

media

No data available.

## 13. Disposal Considerations

**Disposal instructions**Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

**Product Specific Note:** Not relevant, due to the form of the product. Otherwise, the following descriptions apply:

DOT

Basic shipping requirements:

UN number UN1210

**Proper shipping name** Printing ink, flammable or Printing ink related material

Hazard class 3
Packing group III
Labels required 3
Additional information:

Special provisions

Packaging exceptions B1, IB3, T2, TP1

Packaging non bulk 150
Packaging bulk 173
IATA 242

Basic shipping requirements:

UN number UN1210

**Proper shipping name** Printing ink, flammable or Printing ink related material

Hazard class 3
Packing group III
Labels required 3
Additional information:

Packaging exceptions

Packaging non bulk 150
Packaging bulk 173
IMDG 242

**Basic shipping requirements:** 

UN number UN1210

**Proper shipping name** Printing ink, flammable or Printing ink related material

Hazard class 3
Packing group III
Labels required 3
Additional information:

Packaging exceptions 150

**TDG** 

**Basic shipping requirements:** 

**Proper shipping name** Printing ink, flammable or Printing ink related material

Hazard class 3
UN number UN1210
Packing group III

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CPH MSDS NA

Additional information:

Special provisions B1, IB3, T2, TP1

Basic shipping requirements: Labels required 3

Additional information:

150 Packaging exceptions Packaging non bulk 173 Packaging bulk 242

## 15. Regulatory Information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### US CAA Section 112 Hazardous Air Pollutants (HAPs) List

GLYCOL ETHERS, EXCLUDING ETHYLENE GLYCOL MONOBUTYL ETHER (CAS Proprietary)

M-XYLENES (CAS Proprietary)

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

TRADE SECRET COMPONENT (CAS Proprietary) 1.0 % N230 TRADE SECRET SOLVENT (CAS Proprietary) 1.0 %

## US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

TRADE SECRET COMPONENT (CAS Proprietary) N230 Listed. TRADE SECRET SOLVENT (CAS Proprietary) Listed.

## CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

TRADE SECRET SOLVENT: 100

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely No

hazardous substance (40 CRF 355, Appendix A) Section 311/312 (40 CFR

370)

No

**Drug Enforcement** 

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

#### Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable/Combustible

D1B - Immediate/Serious-TOXIC D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling





### Inventory status

Country(s) or region Inventory name On inventory (yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes

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Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

#### State regulations

Country(s) or region

United States & Puerto Rico

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US - California Hazardous Substances (Director's): Listed substance

Inventory name

TRADE SECRET SOLVENT (CAS Proprietary) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

TRADE SECRET COMPONENT (CAS Proprietary) 500 LBS
TRADE SECRET SOLVENT (CAS Proprietary) 500 LBS

**US - New Jersey RTK - Substances: Listed substance** 

TRADE SECRET COMPONENT (CAS Proprietary)
TRADE SECRET SOLVENT (CAS Proprietary)
Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
TRADE SECRET COMPONENT (CAS Proprietary)
Listed.
TRADE SECRET SOLVENT (CAS Proprietary)
Listed.

Mexico regulations

This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

#### 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

**HMIS**® ratings Health: 2\*

Flammability: 3 Physical hazard: 1

NFPA ratings Health: 2

Flammability: 3 Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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On inventory (yes/no)\*

Yes