

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Secureline Lab Marker Ink

Revision date 12-19-2011

Version # 01
CAS # Mixture

Product use Used to make permanent markings on plastic, metal or porcelain labware

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. Possible reproductive hazard - contains material that may

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

cause adverse reproductive effects.

Skin contact. Eye contact. Inhalation.

OSHA regulatory status

Potential health effects

Routes of exposure

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

direct contact.

Skin May cause skin irritation. This product may be harmful if it is absorbed through the 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.

May cause immune system effects. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Pregnant women or women of child-bearing age should not be exposed to this product. Contains a substance which has been shown to cause cancer in

laboratory animals.

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

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 1	Proprietary	Proprietary
TRADE SECRET COMPONENT 2	Proprietary	Proprietary
TRADE SECRET SOLVENT 1	Proprietary	Proprietary
TRADE SECRET SOLVENT 2	Proprietary	Proprietary

Composition commentsAll 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

Eve contact Immediately flush eves 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.

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 advise.

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. Firefighting Measures

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

Extinguishing media

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

media

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

Protective equipment and precautions for firefighters Fire may produce irritating, corrosive and/or toxic gases.

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

Firefighting

equipment/instructions

Specific methods 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

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

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

wearing appropriate protective clothing.

Environmental precautions

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 Avoid exposure - obtain special instructions before use. 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 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 COMPONENT 2 (Proprietary)	STEL	50 ppm	
	TWA	20 ppm	
TRADE SECRET SOLVENT 1 (Proprietary)	TWA	0.1 ppm	

Components	Туре	Value
FRADE SECRET SOLVENT 2 (Proprietary)	STEL	150 ppm
	TWA	100 ppm
JS. OSHA Table Z-1 Limits for Air Contar		100 рр
Components	Type	Value
-	-	
TRADE SECRET COMPONENT 2 (Proprietary)	PEL	200 mg/m3
		50 ppm
FRADE SECRET	PEL	80 mg/m3
SOLVENT 1 (Proprietary)		
		25 ppm
Canada. Alberta OELs (Occupational Hea	alth & Safety Code, Schedule 1,	Table 2)
Components	Туре	Value
RADE SECRET COMPONENT 2 Proprietary)	STEL	200 mg/m3
		50 ppm
	TWA	80 mg/m3
		20 ppm
FRADE SECRET SOLVENT 1 (Proprietary)	TWA	0.3 mg/m3
TRADE SECRET	STEL	0.1 ppm 553 mg/m3
SOLVENT 2 (Proprietary)	SIEL	_
	T)0/0	150 ppm
	TWA	369 mg/m3
Canada. British Columbia OELs. (Occupa		369 mg/m3 100 ppm
Safety Regulation 296/97, as amended)	ational Exposure Limits for Che	369 mg/m3 100 ppm mical Substances, Occupational Health and
Safety Regulation 296/97, as amended) Components	ational Exposure Limits for Che	369 mg/m3 100 ppm mical Substances, Occupational Health and Value
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Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)		
Components	Туре	Value
		25 ppm
TRADE SECRET	TWA	16 mg/m3
SOLVENT 1 (Proprietary)		· ·
		5 ppm
TRADE SECRET	STEL	553 mg/m3
SOLVENT 2 (Proprietary)		·
		150 ppm
	TWA	369 mg/m3
		100 ppm
Mexico. Occupational Exposure	Limit Values	
Components	Туре	Value
TRADE SECRET	STEL	400 mg/m3
COMPONENT 2	SILL	400 mg/mo
(Proprietary)		
(Frepriorary)		100 ppm
	TWA	200 mg/m3
		50 ppm
TRADE SECRET	STEL	120 mg/m3
SOLVENT 1 (Proprietary)	3.22	120 mg/mo
colline (in topilotal)		35 ppm
	TWA	80 mg/m3
	1 **/ 1	25 ppm
		20 γριτι

9. Physical & Chemical Properties

Appearance Marker containing liquid ink

Color Red or Black.

Odor Solvent.
Odor threshold Not available.
Physical state Liquid.

Form Not available.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point 248 °F (120 °C)

Flash point 88 °F (31.1 °C) Closed Cup Evaporation rate 0.6 (Butyl acetate = 1)

Flammability limits in air, upper, 13.7

% by volume

Flammability limits in air, lower, 1.5

% by volume

Vapor pressure Not available.

Vapor density 3

Specific gravity

Solubility (water)

Partition coefficient

Not available.

Not available.

(n-octanol/water)

Auto-ignition temperature 548.6 °F (287 °C) **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.

products

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components		Test Results
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Dermal LD50 Rabbit: 2000 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Dermal LD50 Rabbit: 1280 mg/kg
TRADE SECRET COMPONENT 2 (Proprietary)	Acute Dermal LD50 Rabbit: 948 mg/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Inhalation LC100 Rat: 200 - 300 mg/l 8 Hours
TRADE SECRET SOLVENT 2 (Prop	orietary)	Acute Inhalation LC50 Rat: 15000 ppm 4 Hours
TRADE SECRET COMPONENT 2 (Proprietary)	Acute Inhalation LC50 Rat: 8000 ppm 4 hours
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Inhalation LC50 Rat: 1000 mg/l 8 Hours
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Oral LD50 Guinea pig: 950 mg/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Oral LD50 Mouse: 2560 mg/kg Acute Oral LD50 Mouse: 1580 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Oral LD50 Mouse: 2.8 g/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Oral LD50 Rabbit: 1940 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Oral LD50 Rabbit: 890 mg/kg
TRADE SECRET SOLVENT 2 (Prop	orietary)	Acute Oral LD50 Rat: 6600 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Oral LD50 Rat: 2460 mg/kg
TRADE SECRET COMPONENT 2 (Proprietary)	Acute Oral LD50 Rat: 1540 mg/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Oral LD50 Rat: 1230 - 3100 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Other LD50 Guinea pig: > 400 mg/kg Acute Other LD50 Mouse: 2147 mg/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Other LD50 Mouse: 324 mg/kg
TRADE SECRET SOLVENT 1 (Prop	orietary)	Acute Other LD50 Rat: 2140 mg/kg
TRADE SECRET COMPONENT 1 (Proprietary)	Acute Other LD50 Rat: 53 mg/kg
Acute effects	May agues control norva	us avetem disorder (a.g. paragois involving a loss of acordination

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.

Local effects May cause eye, skin and respiratory tract irritation.

US ACGIH Threshold Limit Values: Skin designation

TRADE SECRET COMPONENT 2 (CAS Proprietary)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Chronic effects Can cause immune system damage.

Carcinogenicity Not classifiable as to carcinogenicity to humans. Contains a substance/substances which

has/have been shown to cause cancer in laboratory animals.

ACGIH Carcinogens

TRADE SECRET COMPONENT 2 (CAS Proprietary)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRADE SECRET COMPONENT 2 (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 May damage fertility or the unborn child.

Teratogenicity Components in this product have been shown to cause teratogenic effects in laboratory animals.

Avoid contact during pregnancy/while nursing.

Symptoms and target

organs

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

12. Ecological Information

Ecotoxicological data

Components **Test Results**

TRADE SECRET COMPONENT 1 (Proprietary) LC50 Bluegill (Lepomis macrochirus): 10 mg/l 96 hours LC50 Bluegill (Lepomis macrochirus): > 10000 mg/l 96 hours TRADE SECRET SOLVENT 1 (Proprietary) LC50 Fathead minnow (Pimephales promelas): 481 - 578 mg/l TRADE SECRET COMPONENT 2 (Proprietary)

96 hours

LC50 Fathead minnow (Pimephales promelas): 481 - 578 mg/l 96 hours

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

possibility that large or frequent spills can have a harmful or damaging effect on the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Environmental effects Persistence and No data is available on the degradability of this product.

degradability

Bioaccumulation /

No data available. Accumulation

Partition coefficient (n-octanol/water)

Not available.

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

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

Hazard class 3 **Packing group** Ш Labels required 3 Additional information:

Special provisions

B1, IB3, T2, TP1 Packaging exceptions

150 Packaging non bulk 173 Packaging bulk 242 **IATA**

Basic shipping requirements:

UN number UN1210

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

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

Packaging exceptions Packaging non bulk

150 173 Packaging bulk 242

Secureline Lab Marker Ink

EHSG-MSDS-0007 Version #: 01 Revision date: 12-19-2011

IMDG

Basic shipping requirements:

UN number UN1210

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

Hazard class 3 Ш Packing group 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 **UN** number UN1210 Ш Packing group

Additional information:

Special provisions B1, IB3, T2, TP1

Basic shipping requirements: Labels required 3

Additional information:

Packaging exceptions 150 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)

2-METHOXYETHANOL (CAS Proprietary) 1.0 % One-Time Export Notification only.

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

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

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

TRADE SECRET SOLVENT 1 (CAS Proprietary)

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

TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed.

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

TRADE SECRET COMPONENT 2: 5000 TRADE SECRET SOLVENT 2: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

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

No 370)

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





Country(s) or region

Inventory status

Australia

	· · · · · · · · · · · · · · · · · · ·	
Canada	Domestic Substances List (DSL)	Yes
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	Yes

Toxic Substances Control Act (TSCA) Inventory

Australian Inventory of Chemical Substances (AICS)

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

State regulations

United States & Puerto Rico

WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

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

(PICCS)

Inventory name

TRADE SECRET COMPONENT 2 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 2 (CAS Proprietary) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed. US - California Proposition 65 - CRT: Listed date/Developmental toxin

TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed: January 1, 1989 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed: January 1, 1989 Male reproductive toxin.

US - Massachusetts RTK - Substance: Listed substance

TRADE SECRET COMPONENT 1 (CAS Proprietary) Listed. TRADE SECRET COMPONENT 2 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 2 (CAS Proprietary) Listed.

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

TRADE SECRET SOLVENT 1 (CAS Proprietary) 500 LBS

US - New Jersey RTK - Substances: Listed substance

TRADE SECRET COMPONENT 2 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 2 (CAS Proprietary) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

TRADE SECRET COMPONENT 1 (CAS Proprietary) Listed. TRADE SECRET COMPONENT 2 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 1 (CAS Proprietary) Listed. TRADE SECRET SOLVENT 2 (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.

Secureline Lab Marker Ink 8/9

On inventory (yes/no)*

Yes

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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