

DermaScribe™

Surgical Skin Marker

Volume 1



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Safety Data Sheet - Surgical Marking Ink

Section 1: Identification

1.1 Identification

Product form : Mixture
Product name : Marker

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Marking

1.3. Details of the supplier of the safety data sheet

Jehu Industries™
Unit 11, Paramount Park, 75 Siphosethu Road
Mount Edgecombe, Phoenix, Kwa Zulu-Natal, 4003
Tel: +27 31 537 8045

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

This product is defined as an article as defined in OSHA29 CFR 1910.1200. The following GHS classification information is applicable to the ink inside the marker.

Classification (GHS-US)

Eye Irrit. 2A H319
Skin Sens. 1 H317
Carc. 2 H351

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US):

GHS07 GHS08

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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Section 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Iso Propyl Alcohol	(CAS No) 67-63-0	10-40%	Flam. Liq. 4, H227
Water	(CAS No) 7732-18-5	10-60%	Not classified
C.I. Basic Violet 3	(CAS No) 548-62-9	2.5-10%	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-bis (dimethylamino) -4''-(methylamino) trityl alcohol	(CAS No) 561-41-1	0,399%	

Section 4: First-aid measures

4.1. Description of first-aid measures

First-aid measures after inhalation : No specific first aid necessary for this route of exposure.
 First-aid measures after skin contact : No specific first aid necessary for this route of exposure.
 First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
 First-aid measures after ingestion : Do not induce vomiting. Give water to victim to drink. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : None under normal use.
 Symptoms/injuries skin contact : May cause an allergic skin reaction.
 Symptoms/injuries eye contact : Causes serious eye irritation.
 Symptoms/injuries after ingestion : Not a likely route of exposure under normal product use. If ingested, may cause gastrointestinal irritation.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use any media suitable for the surrounding fires.
 Unsuitable extinguishing media : None.

Section 6: Accidental release measures

6.1. Environmental precautions

Prevent entry to sewers and public waters.

6.2. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.
 Methods for cleaning up : Confine spill and soak up with absorbent. Use soap and water to clean spill area. Place in an approved container and dispose in accordance with local, state and federal regulations.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with your eyes. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from freezing.

Section 8: Exposure controls/personal protection

8.1. Exposure controls

Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: None required under normal product handling conditions.
Eye protection	: None required under normal product handling conditions.
Skin and body protection	: None required under normal product handling conditions.
Respiratory protection	: None required under normal product handling conditions.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Violet
Odour	: No Information available
Boiling Point	: >110°C
Flash Point	: >85°C
Freezing Point	: Below 0°C
PH:	: 6.00-8.00
Flammability characteristics	: Not flammable
Evaporation	: No information available
Specific Gravity	: 1.1
-Auto-ignition temperature	
Explosive limits in air	
- Lower	
- Upper	
Vapour density (air=1):	
Vapor pressure	: 14mmHg@20C
Vapor Density	: 3.1(estimate)
Solubility	
-In water	: Miscible(in all proportions)
-In organic solvents	
-Common organic solvents	
Explosive properties	: Not an explosive Oxidizing

Section 10: Stability and reactivity

10.1. Chemical stability

The product is stable at normal handling and storage conditions.

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10.3. Possibility of hazardous reactions
Will not occur.

10.4. Conditions to avoid
Excessive heat.

10.5. Incompatible materials
Not determined.

10.6. Hazardous decomposition products
Burning may produce toxic gases.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5)	
LD50 oral rat	> 90ml/kg
Proprietary Component (Trade Secret)	
LD50 oral rat	14500mg/kg
ATE US(oral)	14500.000mg/kg body weight
C.I. BasicViolet 3(548-62-9)	
LD50 oral rat	420mg/kg
ATE US(oral)	420.000mg/kg body weight

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory or skin sensitization : May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard : Not classified

Carcinogenicity : Limited evidence of a carcinogenic effect.

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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Section 12: Ecological information

12.1. Toxicity

Proprietary Component (Trade Secret)	
LC50 fish 1	34000 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish 2	33 - 37 g/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

12.2. Bioaccumulative potential

Proprietary Component (Trade Secret)	
Log Pow	-2.03

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

The consignment are non-dangerous and non-hazardous materials, it is proper for vessel/flight transportation in any nature. the consignment is in all respects condition for transportation: by sea, by air, by railway and by road. Transport in according to annex II of MARPOL and the IBC code. This is not restricted cargo and Comply with 62nd IATA dangerous goods regulation 2021, the product can be Ship by air transport.

Section 15: Regulatory information

15.1. US Federal regulations

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Proprietary Component (Trade Secret)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
C.I. Basic Violet 3 (548-62-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Proprietary Component (Trade Secret)
U.S. - New Jersey - Right to Know Hazardous Substance List

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Section 16: Other Information

Full text of H-phrases

Acute Tox.4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1c	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1	Skin sensitization Category 1
H227	Combustible liquid
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H351	Very toxic to aquatic life
H351	Very toxic to aquatic life with long lasting effects

12.2. Bioaccumulative potential

Contact with skin with gentian violet content

Single-head medical skin marker ink content A1	(1.65g) Double	Aquatic Chronic 1c	Aquatic Chronic 1c
Ratio of gentian violet in ink B	6.006%	Eye Dam. 1	Eye Dam. 1
Recommended surgical skin marker mark length D	mark length D ≤0.5m	Flam. Liq. 4	Flam. Liq. 4
Contact with skin with gentian violet content F	≤E*B	H227	H227

$$\text{ie: } F \leq E * B = \{A_{\max}(=A1) * D / C\} * B = (1.65 * 0.5 / 200) * 0.03 = 0.00012 \text{g} = 0.12 \text{mg} \leq G$$

Conclusion: It can be seen that the contact with the skin of the medical skin marker produced by our company is in accordance with the requirements of the EU REACH (EC No 1907/2006).



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