1 Identification

- Product identifier
- Trade name: PURPLE SURGICAL INK

- Relevant identified uses of the substance or mixture and uses advised against
  - Currently no such applications are identified
- Application of the substance / the mixture: alcohol based permanent marking ink
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Viscot Medical, LLC.
    - 32 West Street
    - East Hanover, NJ 07936
    - Phone: 973-887-9273
    - Fax: 973-887-3961
    - www.viscot.com
  - Information department:
    - Tel.: 973-887-9273

- Emergency telephone number:
  973-887-9273

2 Hazard(s) identification

- Classification of the substance or mixture

  ![GHS02 Flame](image)
  Flam. Liq. 3  H226 Flammable liquid and vapour.

  ![GHS05 Corrosion](image)
  Eye Dam. 1  H318 Causes serious eye damage.

  ![GHS08 Health hazard](image)
  Carc. 2  H351 Suspected of causing cancer.

  ![GHS09 Environment](image)
  Aquatic Chronic 2  H411 Toxic to aquatic life with long lasting effects.

- STOT SE 3  H336 May cause drowsiness or dizziness.

- Label elements
- GHS label elements
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms

- Signal word Danger
- Hazard-determining components of labeling:
  - C.I. Basic Violet 3
  - Hazard statements
    - Flammable liquid and vapour.
    - Causes serious eye damage.
    - Suspected of causing cancer.
May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

- Precautionary statements
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - Use personal protective equipment as required.
  - Ground/bond container and receiving equipment.
  - Use only non-sparking tools.
  - Avoid release to the environment.
  - Take precautionary measures against static discharge.
  - Use only outdoors or in a well-ventilated area.

- Do not handle until all safety precautions have been read and understood.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- In case of fire: Use for extinction: CO2, powder or water spray.
- Collect spillage.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 3
    - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - HEALTH
    - Health = *1
  - FIRE
    - Fire = 3
    - Reactivity = 0

- Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### 3 Composition/information on ingredients
- Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Propan-2-ol</td>
<td>10-25%</td>
</tr>
<tr>
<td>548-62-9</td>
<td>C.I. Basic Violet 3</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures
- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed
  - No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.
5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
  - CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
  - Wear protective clothing.
- Environmental precautions:
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/surface or ground water.
  - Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
- Protective equipment:
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
  - Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
  - 67-63-0 propan-2-ol (10-25%)
    - PEL Long-term value: 980 mg/m³, 400 ppm
    - REL Short-term value: 1225 mg/m³, 500 ppm
    - Long-term value: 980 mg/m³, 400 ppm
    - TLV Short-term value: 984 mg/m³, 400 ppm
    - Long-term value: 492 mg/m³, 200 ppm
  - BEI
    - 40 mg/L
      - Medium: urine
      - Time: end of shift at end of workweek
      - Parameter: Acetone (background, nonspecific)
- Ingredients with biological limit values:
  - 67-63-0 propan-2-ol (10-25%)
    - BEI
      - 40 mg/L
      - Medium: urine
      - Time: end of shift at end of workweek
      - Parameter: Acetone (background, nonspecific)
- Additional information:
  - The lists that were valid during the creation were used as basis.
  - Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing.
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the eyes.
      - Avoid contact with the eyes and skin.
· Breathing equipment:  
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:
  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  · Penetration time of glove material
    The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:
  Tightly sealed goggles

### 9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Fluid
    - Color: According to product specification
    - Odor: Alcohol-like
    - Odour threshold: Not determined.

- Important information on protection of health and environment, and on safety.
  - pH-value: Not determined.

- Change in condition
  - Melting point/Melting range: n.d. °C
  - Boiling point/Boiling range: 82 °C (180 °F)

- Flash point: 30 °C (86 °F)

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature: 371 °C (700 °F)

- Decomposition temperature: Not determined.

- Auto igniting: Product is not selfigniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- Explosion limits:
  - Lower: 2.0 Vol %
  - Upper: 12.6 Vol %

- Vapor pressure at 20 °C (68 °F): 43 hPa (32 mm Hg)

- Density at 20 °C (68 °F): 0.967 g/cm³ (8.07 lbs/gal)
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.

- Solubility in / Miscibility with Water: Fully miscible.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- Possibility of hazardous reactions
  No dangerous reactions known.
- Conditions to avoid
  No further relevant information available.
- Incompatible materials
  No further relevant information available.
- Hazardous decomposition products
  No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  - Irritant
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Ecotoxic effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
  Water hazard class 2 (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Danger to drinking water if even small quantities leak into the ground.
  Also poisonous for fish and plankton in water bodies.
  Toxic for aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
## 14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR, IMDG, IATA</th>
<th>UN1263</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN proper shipping name</strong></td>
<td>Paint</td>
<td>1263 Paint, ENVIRONMENTALLY HAZARDOUS PAINT (C.I. Basic Violet 3), MARINE POLLUTANT PAINT</td>
</tr>
<tr>
<td><strong>Transport hazard class(es)</strong></td>
<td>3 Flammable liquids</td>
<td>3</td>
</tr>
<tr>
<td><strong>DOT</strong></td>
<td>Class 3</td>
<td>Label 3</td>
</tr>
<tr>
<td><strong>ADR</strong></td>
<td>Class 3 (F1) Flammable liquids</td>
<td>Label 3</td>
</tr>
<tr>
<td><strong>IMDG</strong></td>
<td>Class 3 Flammable liquids</td>
<td>Label 3</td>
</tr>
<tr>
<td><strong>IATA</strong></td>
<td>Class 3 Flammable liquids</td>
<td>Label 3</td>
</tr>
<tr>
<td><strong>Packing group</strong></td>
<td>DOT, ADR, IMDG, IATA</td>
<td>III</td>
</tr>
<tr>
<td><strong>Environmental hazards:</strong></td>
<td>Product contains environmentally hazardous substances: C.I. Basic Violet 3</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Marine pollutant:</strong></td>
<td>Symbol (fish and tree)</td>
<td>Symbol (fish and tree)</td>
</tr>
<tr>
<td><strong>Special marking (ADR):</strong></td>
<td>Special precautions for user</td>
<td>Warning: Flammable liquids</td>
</tr>
<tr>
<td><strong>Danger code (Kemler):</strong></td>
<td>30</td>
<td>EMS Number: F-E,S-E</td>
</tr>
<tr>
<td><strong>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</strong></td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Transport/Additional information:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOT</strong></td>
<td>Quantity limitations</td>
<td>On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L</td>
</tr>
<tr>
<td><strong>Remarks:</strong></td>
<td>Special marking with the symbol (fish and tree).</td>
<td></td>
</tr>
<tr>
<td><strong>ADR</strong></td>
<td>Excepted quantities (EQ)</td>
<td>Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</td>
</tr>
</tbody>
</table>
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
  - Section 355 (extremely hazardous substances):
    None of the ingredient is listed.
  - Section 313 (Specific toxic chemical listings):
    None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  - Proposition 65
    Chemicals known to cause cancer:
    None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males:
    None of the ingredients is listed.
  - Chemicals known to cause developmental toxicity:
    None of the ingredients is listed.
  - DSL/NDSL (Canada)  All ingredients are listed.
  - Cancerogenity categories
    EPA (Environmental Protection Agency)  None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)  67-63-0 propan-2-ol  A4
  - MAK (German Maximum Workplace Concentration)  None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients is listed.
  - GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
    - Hazard pictograms
      GHS02  GHS05  GHS07  GHS08  GHS09
      - Signal word  Danger
      - Hazard-determining components of labeling:
        C.I. Basic Violet 3
      - Hazard statements
        Flammable liquid and vapour.
        Causes serious eye damage.
        Suspected of causing cancer.
        May cause drowsiness or dizziness.
        Toxic to aquatic life with long lasting effects.
      - Precautionary statements
        Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
        Use explosion-proof electrical/ventilating/lighting/equipment.
        Avoid breathing dust/fume/gas/mist/vapours/spray.
        Wear protective gloves and/or eye protection/face protection.
        Use personal protective equipment as required.
        Ground/bond container and receiving equipment.
        Use only non-sparking tools.
        Avoid release to the environment.
        Take precautionary measures against static discharge.

(Contd. on page 8)
39.2.6

Use only outdoors or in a well-ventilated area.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Collect spillage.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Technical instructions (air):

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK</td>
<td>25-50</td>
</tr>
</tbody>
</table>

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision: 09/11/2014 / 6
- Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RID</td>
<td>Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</td>
</tr>
<tr>
<td>IATA-DGR</td>
<td>Dangerous Goods Regulations by the &quot;International Air Transport Association&quot; (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organisation</td>
</tr>
<tr>
<td>ICAO-TI</td>
<td>Technical Instructions by the &quot;International Civil Aviation Organisation&quot; (ICAO)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Code for Dangerous Goods</td>
</tr>
<tr>
<td>DOT</td>
<td>US Department of Transportation</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (division of the American Chemical Society)</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association (USA)</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System (USA)</td>
</tr>
<tr>
<td>Flam. Lq. 3</td>
<td>Flammable liquids, Hazard Category 3</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>Serious eye damage/eye irritation, Hazard Category 1</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity, Hazard Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity - Single exposure, Hazard Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard, Category 2</td>
</tr>
</tbody>
</table>

* Data compared to the previous version altered.