1. Identification of the Product and Company

Product Name: SURGICAL SPIRIT
Product Code: SUR01131F
Other Names: None allocated
Use: For drying and astringent action on skin or as a solvent.

Company Name & Contact Details
Distributed by Perrigo Australia
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Other Information
All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Orion accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.

2. Hazards Identification

Hazard Classification
Hazardous Substance – Dangerous Good. This product is highly flammable. Harmful by inhalation and if swallowed. Irritating to skin.

Risk phrase(s)
R11 – Highly Flammable; R40 – Possible risks of irreversible effects; R66 – Repeated exposure may cause skin dryness and cracking; R20/22 – Harmful by inhalation and if swallowed; R36/38 – Irritating to the eyes and skin.

Safety phrase(s)
S7 - Keep container tightly closed; S16 - Keep away from sources of ignition – no smoking; S29 – Do not empty into drains.
S33 – Take precautionary measures against static discharges.
S45 – In case of accident or if you feel unwell seek medical advice immediately (show the label whenever possible).
S24/25 - Avoid contact with skin and eyes; S36/37/39 – Wear suitable protective clothing/gloves and eye/face protection

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Entity</th>
<th>CAS No.</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Salicylate</td>
<td>119-36-8</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Diethyl Phthalate</td>
<td>84-66-2</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Castor Oil</td>
<td>8001-79-4</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Ethanol 96%</td>
<td>64-17-5</td>
<td>To 100%</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Inhalation: Remove patient to fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.

Ingestion: If swallowed, give large amounts of water to drink. Do not induce vomiting. Contact a doctor or Poisons Information Centre.

Skin: Remove contaminated clothing and wash skin with water. Launder contaminated clothing before use.

Eye: Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.

Advice to Doctor: Care should be taken during emesis to prevent pulmonary aspiration of the return flow. If respiration is depressed, assisted respiration may be necessary.
5. Fire Fighting Measures

*Highly flammable liquid.* Burns with a colourless flame. Eliminate all possible sources of ignition. Ventilate area well. The vapour is heavier than air and may travel along the ground; distant ignition and flashback are possible.

**Extinguishing Media**
- Water fog/spray, carbon dioxide, dry chemical powder, carbon dioxide or alcohol stable foam.

**Hazards from Combustion products**
- On burning may emit toxic fumes including carbon monoxide and carbon dioxide. Remove containers from path of fire. Heating can cause expansion and rupture of containers. Keep containers cool with water spray.

**Precautions & Equipment for Fire Fighters**
- Fire-fighters should wear self-contained breathing apparatus as exposure to vapour or combustion products is likely. Vapour is heavier than air and may travel along the ground. Distant ignition is possible.

**Hazchem Code**
- 2[Y]E

6. Accidental Release Measure

Eliminate all possible sources of ignition; take measures to prevent static discharge. Stop & contain spill; avoid entry into drains & waterways; use inert absorbent material (sand, vermiculite). Dispose all waste containers and used drums in accordance with local authority guidelines. Ventilate area well. Cleanup personnel to wear suitable respirator to minimise inhalation & protective clothing (eg gloves) to avoid skin contact.

7. Handling and Storage

**Safe Handling Practices**
- Alcoholic solutions are highly flammable.
  - Avoid pooling on surfaces.
  - Do not use near a naked flame or other ignition source.

**Storage**
- Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidising agents or foodstuffs.
- Store away from sources of heat or ignition. Store in a well-ventilated area and keep containers closed when not in use to avoid evaporation.
- Store below 25°C. Protect from light.

**Other Information**
- Do not eat, drink or smoke when using this product.

8. Exposure Controls; Personal Protection

**Exposure Limits:**
There are no known exposure limits for Surgical Spirit, but the following Threshold Limit Values (TLV) for Ethanol 100% and diethyl phthalate should serve as a guide.

- Ethanol: TLV 1000ppm 1900mg/m$^3$
- Diethyl Phthalate: TWA 5mg/m$^3$, STEL 10mg/m$^3$

TWA = Time weighted average – airborne concentration over an eight-hour working day over an entire working life.

STEL = Short term exposure limit - the concentration to which workers can be exposed continuously for a short period.

**Engineering Controls**
- No respiratory protection is necessary under normal circumstances. Maintain concentration below recommended exposure limit and use adequate ventilation at all times.

**Personal Protection**
- Avoid eye contact. If spillage or splashing are likely to occur during handling, wear safety spectacles. Approved barrier creams may prove useful in preventing dermatitis when prolonged skin contact is unavoidable.
9. Physical and Chemical Properties

**Appearance / Odour:** A clear, colourless, spiritous liquid which has an odour characteristic of methyl salicylate.

**pH:** Not known

**Vapour Pressure:** <58.1 mbar at 20°C

**Vapour Density:** Not known

**Boiling Point:** Approximately 78°C

**Specific Gravity:** 0.817 – 0.827 g/mL

**Refractive Index:** 1.367 – 1.372

**Solubility:** Miscible

**Flashpoint:** Approximately 17°C (closed cup)

10. Chemical Stability and Reactivity Information

**Conditions Contributing to Instability:** Stable under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, flame and build-up of electricity.

**Hazardous Decomposition:** Burning can produce carbon monoxide and/or carbon dioxide.

11. Toxicological Information

**Inhalation:** Moderately irritating to mucous membranes.

**Ingestion:** May cause nausea and vomiting. Aspiration may cause lung damage.

**Skin:** May cause irritation and reddening.

**Eye:** Vapour may irritate the eyes. Liquid or mist may irritate or damage the eyes

**Chronic:** Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

12. Ecological Information

**Mobility:** No data available

**Persistence and Degradability:** Biodegradable

**Ecotoxicity:** Expected to be toxic to aquatic life.

13. Disposal Considerations

**Disposal Methods & Containers:** Wash empty containers with water. Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods. Empty containers should be decontaminated by rinsing with water prior to disposal.

**Special Disposal for Landfill or Incineration:** Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods.
14. Transport Information

<table>
<thead>
<tr>
<th>UN Number:</th>
<th>1170</th>
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</thead>
<tbody>
<tr>
<td>UN Proper Shipping Name:</td>
<td>Ethanol solutions</td>
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<tr>
<td>DG Class &amp; Subsidiary Risk:</td>
<td>3; none allocated</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>II</td>
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<tr>
<td>Hazchem Code:</td>
<td>2[Y]E</td>
</tr>
</tbody>
</table>

15. Regulatory Information

Not scheduled

16. Other Information

References:
- Ethanol MSDS-022 03/2005 CSR
- Methyl Salicylate MSDS M7257 08/02/05 T.J. Baker
- Castor Oil MSDS C1500 02/12/04 T.J. Baker
- Diethyl Phthalate MSDS D2688 08/10/04 T.J. Baker
- Safety Information – Flammable & Combustible University of Alberta

END OF MSDS