SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:
LANOPROTECT MULTI-PURPOSE MARINE (AEROSOL)

Product code: LPMA-400
Synonyms: Lanolin spray

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Water resistant, water dispersent, anti corrosive, spray for use on all ferrous and non ferrous materials such as steel, iron, stainless steel, copper, timber, leather, vinyl, canvas, plastics, etc.

1.3. Details of the supplier of the safety data sheet:
LanoProtect Ltd.
50 Eastgate Drive
Eastgate Business Park,
Little Island,
Cork
Ireland
Tel.: + 353 21 4352945
Fax: + 353 21 4354653
E-mail: info@lanoprotect.com
Website: www.lanoprotect.com

1.3.1. Responsible person: Peter Creighton
E-mail: info@lanoprotect.com

1.4. Emergency telephone number: + 353 21 4352945 (8-16 h)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification based on the REACH regulation:

F+

Extremely flammable

Risk phrases:
R 12 - Extremely flammable.

Safety phrases:
S 2 - Keep out of the reach of children
S 16 - Keep away from sources of ignition – No smoking
S 23 - Do not breathe spray
S 51 - Use only in well-ventilated areas
2.2. **Label elements**

**Hazardous components:**

Butane

![F+](image)

**Extremely flammable**

Risk phrases:

R 12 - Extremely flammable.

Safety phrases:

S 23 - Do not breathe spray
S 51 - Use only in well-ventilated areas

“Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.”

„Keep away from sources of ignition – No smoking”

„Keep away from reach of children”

2.3. **Other hazards**

Ingestion: slightly irritating, may cause lung damage.

Eye contact: may cause slight discomfort to the eyes but will not injure eye tissue.

Skin contact: may be mildly irritating to the skin due to solvent content.

Inhalation: mists from the product may produce discomfort in the upper respiratory tract. Inhalation hazard is increased at elevated temperatures.

Chronic exposure: very isolated cases of skin sensitization to lanolin have been reported, however this incidence of allergy is extremely low (NIOSHITC) thought to be „swint” or sheep’s sweat/dandruff, inevitably extracted with the crude lanolin during processing.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. **Mixture:**

<table>
<thead>
<tr>
<th>Description</th>
<th>CAS number:</th>
<th>EU number</th>
<th>REACH reg. nr.</th>
<th>Concentration (%)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanolin*</td>
<td>8006-54-0</td>
<td>232-348-6</td>
<td>-</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Proprietary blend hydrocarbon solvents (1)</td>
<td>64742-81-0</td>
<td>265-184-9</td>
<td>-</td>
<td>56</td>
<td>Xn 65</td>
</tr>
<tr>
<td>Shell Aerosolve 40 (SHAP 40)</td>
<td>68476-85-7</td>
<td>207-704-2</td>
<td>-</td>
<td>30</td>
<td>F+ 12</td>
</tr>
</tbody>
</table>

* Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

(1) Note H (Tab l e 3 . 1 ):

The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered.
4. **FIRST AID MEASURES**

4.1. **Description of first aid measures:**

**IN CASE OF INGESTION:**

**Measures:**

- If swallowed, do not induce vomiting.
- Give water or milk to rinse out mouth then give liquid slowly and as much as can comfortably be drunk.
- Seek medical advice.

**IN CASE OF INHALATION:**

**Measures:**

- Take the victim into fresh air, loosen his clothes and let him rest.
- In case of symptoms, obtain medical attention and show him the label!

**IN CASE OF SKIN CONTACT:**

**Measures:**

- If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water.
- If irritation persists, transport hospital or doctor.

**IN CASE OF EYE CONTACT:**

**Measures:**

- If material splashed onto eyes, immediately flush with plenty of water for 15 minutes, ensuring eyelids are held open.
- If irritation persists, transport hospital or doctor.

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

Ingestion: slightly irritating, may cause lung damage.
Eye contact: may cause slight discomfort to the eyes but will not injure eye tissue.
Skin contact: may be mildly irritating to the skin due to solvent content.
Inhalation: mists from the product may produce discomfort in the upper respiratory tract. Inhalation hazard is increased at elevated temperatures.
Chronic exposure: very isolated cases of skin sensitization to lanolin have been reported, however this incidence of allergy is extremely low (NIOSHITIC) thought to be „swint” or sheep’s sweat/dandruff, inevitably extracted with the crude lanolin during processing.

4.3. **Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically. Eye wash fountain, safety shower and normal washroom facilities are needed.

5. **FIRE-FIGHTING MEASURES**

5.1. **Extinguishing media:**

5.1.1. **Suitable extinguishing media:**

Use extinguishing media suitable for surrounding fire situation.

5.1.2. **Unsuitable extinguishing media:**

None known.

5.2. **Special hazards arising from the substance or mixture:**

May decompose on heating emitting oxides of carbon. May emit acrid smoke. This material is a combustible liquid at elevated temperatures. Slight fire hazard when exposed to heat or flame.

5.3. **Advice for firefighters:**

Wear full protective clothing and self-contained breathing apparatus. If safe to do so, move undamaged containers from fire area.

6. **ACCIDENTAL RELEASE MEASURES**

6.1. **Personal precautions, protective equipment and emergency procedures:**

6.1.1. **For non-emergency personnel:**

Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2. **For emergency responders:**

Material may be slippery when spilt. Walk cautiously.
Stop leak if safe to do so.

6.2. **Environmental precautions:**

Dispose of spillage and waste (product/packaging) in accordance with all applicable environmental laws. Do not allow to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. **Methods and material for containment and cleaning up:**

Minor spills: collect and seal in properly labelled containers for disposal.
Major spills: wear impervious gloves and safety glasses. Contain spill with sand, eart or vermiculite. Collect residues and seal in labelled drums for disposal. Wash spill area thoroughly with water and suitable detergent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4. **Reference to other sections:**

For further and detailed information see section 8 and 13.
7. **HANDLING AND STORAGE**

7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Technical measures:
Ensure adequate ventilation!
Prevent formation of aerosols.
Precautions against fire and explosion:
No special measures required.

7.2. **Conditions for safe storage, including any incompatibilities:**
Technical measures and storage condition:
Keep in original, tightly closed and labelled container.
The place of storage has to be properly ventilated and cleanable.
Store in a cool place and out of direct sunlight.
Store away from sources of heat or ignition.
Keep container tightly sealed when not using the product.
Follow all instructions on the label.
Incompatible materials: oxidizing agents.
Packaging material: original packages.

7.3. **Specific end use(s):**
No specific instructions available.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. **Control parameters:**

**Butane (CAS: 106-97-8):** Long-term exposure limit: 1450 mg/m³, Short term exposure limit: 1810 mg/m³

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Routes of exposure</th>
<th>Exposure frequency:</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>Short term (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term (repeated)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inhalative</td>
<td>Short term (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term (repeated)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>Short term (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term (repeated)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC</th>
<th>Exposure frequency:</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short term (single use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long term (continuous)</td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short term (single use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long term (continuous)</td>
<td></td>
</tr>
<tr>
<td>Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short term (single use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long term (repeated)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short term (single use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long term (continuous)</td>
<td></td>
</tr>
</tbody>
</table>

8.2. **Exposure controls:**
In case of a hazardous material with no controlled concentration limit it is the employer’s duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. **Appropriate engineering controls**
In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Maintain adequate ventilation at all times. In most circumstances, natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

8.2.2. **Individual protection measures, such as personal protective equipment:**
1. Eye/face protection: chemical goggles or face shield to protect eyes.
2. Skin protection:
   a. Hand protection: not normally required, however, if handling large quantities or if the skin is likely to be exposed to this product over prolonged periods, then the use of PVC or natural rubber is recommended.
   b. Other: not normally required.
3. Respiratory protection: avoid breathing of vapours/gases. Select and use respirators in accordance with the national/European standards. The use of a dust mask (disposable) or a half-face respirator with P1 filter is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a self-contained breathing apparatus (SCBA) with positive pressure air supply complying the national/European standards.
4. Thermal hazard: None known.

8.2.3. **Environmental exposure controls:**
No specific prescription.
The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert’s advice should be sought out before deciding upon further protective measures.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test method:</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Appearance:</td>
<td></td>
<td>information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>2. Odour:</td>
<td></td>
<td>slight characteristic odour</td>
</tr>
<tr>
<td>3. Odour threshold:</td>
<td></td>
<td>no data available</td>
</tr>
<tr>
<td>4. pH value:</td>
<td></td>
<td>no data available</td>
</tr>
<tr>
<td>5. Melting point/freezing point:</td>
<td></td>
<td>no data available</td>
</tr>
<tr>
<td>6. Initial boiling point and boiling range:</td>
<td>195°C</td>
<td>information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>7. Flash point:</td>
<td>78°C</td>
<td>* information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>8. Evaporation rate:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>9. Flammability:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>10. Upper/lower flammability or explosive limits:</td>
<td>lower: 0,6, upper: 7,0</td>
<td>information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>11. Vapour pressure:</td>
<td>0,06 kPa</td>
<td>38°C information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>12. Relative density:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>13. Solubility (ies):</td>
<td>Immiscible in water.</td>
<td>information regarding the LanoProtect Liquid Lanolin</td>
</tr>
<tr>
<td>14. Partition coefficient: n-octanol/water:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>15. Self-ignition temperature:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>16. Degradation temperature:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>17. Viscosity:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>18. Explosive properties:</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>19. Oxidizing properties:</td>
<td>no data available</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information:

Specific gravity: 0,85 – 0,89

* Complies with Flash Point Determination in accordance with AS 2106.2:1999 using the Pensky-Martens apparatus conducted by Department of Mineral Resources, Mine Safety Laboratory. (Information regarding the LanoProtect Liquid Lanolin).

10. STABILITY AND REACTIVITY

10.1. Reactivity:

None known.

10.2. Chemical stability:

At normal temperature: stabile at general conditions of work.

10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4. Conditions to avoid:

High temperatures and incompatibilities.

10.5. Incompatible materials:

Oxidizing agents.

10.6. Hazardous decomposition products:

Emist smoke and fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity: None known.

Irritation: None known.

Corrosivity: None known.

Sensitisation: None known.

Reproductive toxicity: None known.

Carcinogenicity: None known.

LanoProtect Ltd.
Mutagenicity: None known.
Reproduction toxicity: None known.

11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:
No data available.

11.1.2. Relevant toxicological properties of the hazardous substances:
No data available.

11.1.3. Information on likely routes of exposure:
Ingestion, inhalation, skin and eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
Ingestion: slightly irritating, may cause lung damage.
Eye contact: may cause slight discomfort to the eyes but will not injure eye tissue.
Skin contact: may be mildly irritating to the skin due to solvent content.
Inhalation: mists from the product may produce discomfort in the upper respiratory tract. Inhalation hazard is increased at elevated temperatures.
Chronic exposure: very isolated cases of skin sensitization to lanolin have been reported, however this incidence of allergy is extremely low (NIOSHTIC) thought to be „swint” or sheep’s sweat/dandruff, inevitably extracted with the crude lanolin during processing.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available.

11.1.6. Interactive effects:
No data available.

11.1.7. Absence of specific data:
There is no toxicological information available for this product.

11.1.8. Other information:
No data available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity:
No data available.

12.2. Persistence and degradability:
100% biodegradable.

12.3. Bioaccumulation potential:
No data available.

12.4. Mobility in soil:
No data available.

12.5. Results of PBT and vPvB assessment:
No data available.

12.6. Other adverse effects:
No data available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:
Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:
Observe local regulations. Dispose of material through a licensed waste contractor. Suitable for disposal by an approved waste disposal agent.
During the disposal of the product, its residue and its packaging the national and local prescriptions should be observed. The EWC codes indicated below are only recommendations, but they may have to be changed due to special circumstances, in such cases new classification may be needed.

13.1.2. Information regarding the disposal of the packaging
According to the consideration regarding the product.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:
None known.

13.1.4. Sewage disposal:
None known.

13.1.5. Special precautions for any recommended waste treatment:
No data available.

14. TRANSPORT INFORMATION

14.1. UN Number:
1950

14.2. UN proper shipping name:
AEROSOL

14.3. Transport hazard class(es):
2
Hazchem code: 2Y
14.4. Packing group:
- 
14.5. Environmental hazards:
- 
14.6. Special precautions for user:
- 
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
- 
15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:


DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations


Aerosol Dispensers Directive (ADD) 75/324/EEC

15.2. Chemical safety assessment:
-

16. OTHER INFORMATION

Information regarding the revision of the safety data sheet:
- 
Full text of the abbreviations in the safety data sheet:
DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction: PBT: Persistent, bioaccumulative and toxic. n.d.: not defined. n.a.: Not applicable.
Data sources:
- Relevant R-Phrases (number and full text) of Section 2 and 3:
  R12 - Extremely flammable.
  R65 - Harmful: may cause lung damage if swallowed.

Relevant H-Phrases (number and full text) of Section 2 and 3:
  H220 – Extremely flammable gas.
  H304 - May be fatal if swallowed and enters airways.

Training instructions:
- 
Recommended restrictions on use (non-statutory recommendations by supplier):
- 
This safety data sheet had been prepared on the basis of information provided by the manufacturer. The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required. Since the conditions or the handling, the storage and the disposal of this product are beyond the control of the manufacturer, the distributor or the preparer of this SDS, no warranty, expressed or implied, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. No responsibility is assumed regarding the accuracy, completeness or suitability of all or any of the information contained herein or the results to be obtained from the use thereof at the time of use. In no way shall the manufacturer, the distributor or the preparer of the be liable for any claims, losses or damages of third parties, personal injury, property damage, lost profits or any special, direct, indirect, incidental, consequential or exemplary damages resulting from the use of or reliance upon such information. Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.