This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name**
Haynes Lubri-Film Plus

**Other means of identification**

**Product Code(s)**
80, 83, 84, 85, 82, 59, 57, 58

**Synonyms**
Tubes, Bulk Packaging

### Recommended use of the chemical and restrictions on use

**Recommended Use**
Use as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated parts to food.

**Uses advised against**
No information available

### Supplier’s details

**Initial Supplier**
Canadian address required

**Supplier Address**
Haynes Manufacturing Company
24142 Detroit Road
Westlake, OH 44145
USA
TEL: 440-871-2188

### Emergency telephone number

**Emergency Telephone Number**
440-871-2188 x195 (U.S)
800-992-2166 (U.S)

## 2. HAZARDS IDENTIFICATION

### Classification

This product is not considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

### Label Elements

None

### Physical and Health Hazards Not Otherwise Classified

Not applicable.

### Precautionary Statements

**Prevention**
- None
General Advice
• None

Storage
• None

Disposal
• None

Other information
May cause long lasting harmful effects to aquatic life.

2% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>8042-47-5</td>
<td>91</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact
Rinse thoroughly with plenty of water, also under the eyelids. If material is hot, treat for thermal burns and seek immediate medical attention.

Skin Contact
Wash off with warm water and soap. If material is hot and thermal burns are sustained, submerge injured area in cold water. Do not apply ice to injured area. If burns are severe and/or cover a large area of skin, seek immediate medical attention.

Inhalation
Clear passages and remove to fresh air. Not an expected route of exposure.

Ingestion
If swallowed: Clean mouth with water. Do NOT induce vomiting. Consult a physician.

Most important symptoms/effects, acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical or CO₂. Treat as a petroleum grease / oil fire.

Unsuitable Extinguishing Media
Water spray jet.

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Treat as a gasoline or oil fire. Flames may float on water and spread.

Hazardous Combustion Products
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)
Explosion Data
Sensitivity to Mechanical Impact
None.
Sensitivity to Static Discharge
None.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area) If spilled, take caution, as material can cause surfaces to become very slippery.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Material creates a special hazard because it floats on water.

Methods and materials for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up
Dike far ahead of spill; use dry sand to contain the flow of material Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Large spillage: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. If spilled, take caution, as material can cause surfaces to become very slippery.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep away from oxidizing materials.

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>TWA: 5 mg/m³ inhalable particulate matter excluding metal working fluids, highly &amp; severely refined</td>
<td>TWA: 5 mg/m³ (vacated) TWA: 5 mg/m³</td>
<td>IDLH: 2500 mg/m³</td>
</tr>
<tr>
<td>8042-47-5</td>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 10 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment
Eye/Face Protection
No special protective equipment required. If splashes are likely to occur, wear: Goggles.

Skin and Body Protection
No special protective equipment required. Wear protective gloves and additional protective clothing as necessary to prevent exposures. When handling hot material, use heat resistant gloves.

Respiratory Protection
No protective equipment is needed under normal use conditions. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Full face piece respirator with organic vapor/acid gas cartridge or canister.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>93 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 148 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>&lt;1</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>55 (Saybolt @ 210°F) D445</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>~ 8.77 mm²/s @ 40°C</td>
<td></td>
</tr>
</tbody>
</table>

Flammable Properties
Not flammable

Explosive Properties
No data available

Oxidizing Properties
No data available

Other information

VOC Content (%)
No data available

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Ignitions sources - heat, sparks and open flames. Incompatible products.
Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products
Carbon monoxide (CO). Carbon dioxide (CO₂). Hazardous decomposition products due to incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation
Inhalation of aerosols: May cause irritation of respiratory tract.

Eye Contact
May cause slight irritation.

Skin Contact
Substance may cause slight skin irritation.

Ingestion
No known effect based on information supplied

Numerical measures of toxicity - Product

Unknown acute toxicity 2% of the mixture consists of ingredient(s) of unknown toxicity. The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 7253 mg/kg; Acute toxicity estimate

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization
No information available.

Germ Cell Mutagenicity
No information available.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen. Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>A2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen

Reproductive Toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organ Effects
Eyes. Respiratory system. Skin.

Aspiration Hazard
None of the ingredients are known to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. May cause long-term adverse effects in the environment. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td></td>
<td>LC50 96 h: &gt; 10000 mg/L (Lepomis macrochirus)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.
Bioaccumulation

No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>&gt;6</td>
</tr>
</tbody>
</table>

Mobility

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with local regulations.

Contaminated Packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

15. REGULATORY INFORMATION

International Regulations

Ozone depleting substances
Not applicable

Persistent Organic Pollutants
Not applicable

Hazardous Waste
Not applicable

The Rotterdam Convention (Prior Informed Consent)
Not applicable

International Convention for the Prevention of Pollution from Ships (MARPOL)
Not applicable

International Inventories

TSCA
Complies

DSL
Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard
No

Chronic Health Hazard
No

Fire Hazard
No

Sudden Release of Pressure Hazard
No

Reactive Hazard
No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number  Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Issuing Date  14-Jun-2017
Revision Date  14-Jun-2017
Revision Note  Initial Release.

General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet