# PENRAY INNER SLIDE LUBE
Safety Data Sheet

Date of issue: 07/10/2014  
Revision date: 07/10/2014  
Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier
- **Product name**: PENRAY INNER SLIDE LUBE
- **Product code**: 7005

### 1.2. Relevant identified uses of the substance or mixture and uses advised against
- **Use of the substance/mixture**: Inner slide lube.

### 1.3. Details of the supplier of the safety data sheet
The Penray Companies, Inc.  
440 Denniston Ct.  
Wheeling, IL 60090  
T (800) 373-6729  
rotto@penray.com

### 1.4. Emergency telephone number
- **Emergency number**:  
  - (800) 373-6729  
  - CHEMTREC (800) 424-9300  
  - CHEMTREC International +1 (703) 527-3887 24 hr

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture
- **GHS-US classification**
  - Flammable Aerosol 1  
  - Gases Under Pressure - Liquefied gas  
  - Skin irritation 2  
  - Carcinogenicity 2  
  - Reproductive toxicity 2 (developmental)  
  - Specific target organ toxicity - Single exposure 3  
  - Specific target organ toxicity - Repeated exposure 2  
  - Aspiration hazard 1

### 2.2. Label elements
#### GHS-US labelling
- **Hazard pictograms (GHS-US)**:  
  - GHS02  
  - GHS04  
  - GHS07  
  - GHS08
- **Signal word (GHS-US)**: Danger
- **Hazard statements (GHS-US)**: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

### 2.3. Other hazards
No additional information available
2.4. Unknown acute toxicity (GHS-US)
20 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| Heptane, branched, cyclic and linear | (CAS No) 426280-76-6 | 15 - 40 | Flam. Liq. 2  
Skin Irrit. 2  
STOT SE 3  
Asp. Tox. 1 |
| Propane                     | (CAS No) 74-98-6    | 10 - 30 | Flam. Gas 1  
Liquefied gas |
| n-Heptane                   | (CAS No) 142-82-5   | 10 - 30 | Flam. Liq. 2  
Skin Irrit. 2  
STOT SE 3  
Asp. Tox. 1 |
| Butane                      | (CAS No) 106-97-8   | 10 - 30 | Flam. Gas 1  
Liquefied gas |
| Asphalt                     | (CAS No) 8052-42-4  | 1 - 5  | Carc. 2                                      |
| Toluene                     | (CAS No) 108-88-3   | 0.1 - 2 | Flam. Liq. 2  
Skin Irrit. 2  
Repr. 2  
STOT SE 3  
STOT RE 2  
Asp. Tox. 1 |

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/attention.

First-aid measures after skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation: May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation. Intentional misuse of product by inhalation can result in asphyxiation or death.

Symptoms/injuries after skin contact: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Powder, water spray, foam, carbon dioxide.
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.
Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Protection during firefighting: Keep upwind of fire. Wear full fire fighting turnout gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up: Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/mist/vapors/spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50°C/122°F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA ACGIH</th>
<th>USA OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Heptane, branched, cyclic and linear</strong> (426260-76-6)</td>
<td>ACGIH TWA</td>
<td>OSHA PEL (TWA)</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Propane (74-98-6)</strong></td>
<td>ACGIH TWA (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>1000 ppm</td>
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<tr>
<td><strong>n-Heptane (142-82-5)</strong></td>
<td>ACGIH TWA (ppm)</td>
<td>400 ppm</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>500 ppm</td>
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<tr>
<td>USA OSHA</td>
<td>2000 mg/m³</td>
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07/10/2014 EN (English)
n-Heptane (142-82-5)

<table>
<thead>
<tr>
<th></th>
<th>USA OSHA</th>
<th>OSHA PEL (TWA) (ppm)</th>
<th>500 ppm</th>
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</thead>
</table>

Butane (106-97-8)

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>ACGIH STEL (ppm)</th>
<th>1000 ppm</th>
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</table>

Asphalt (8052-42-4)

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>0.5 mg/m³</th>
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</table>

Toluene (108-88-3)

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>20 ppm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>OSHA PEL (Ceiling) (ppm)</td>
<td>300 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Safety glasses or goggles are recommended when using product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Gas/Pressurized Liquid.

Appearance: Grease.

Color: Black.

Odor: Solvent.

Odor threshold: No data available.

pH: No data available.

Relative evaporation rate (butylacetate=1): No data available.

Melting point: No data available.

Freezing point: No data available.

Boiling point: No data available.

Flash point: No data available.

Self ignition temperature: No data available.

Decomposition temperature: No data available.

Flammability (solid, gas): Flammable.

Vapor pressure: No data available.

Relative vapor density at 20 °C: No data available.

Relative density: 6.326 - 6.386

Solubility: No data available.

Log Pow: No data available.

Log Kow: No data available.

Viscosity, kinematic: No data available.

Viscosity, dynamic: No data available.

Explosive properties: No data available.

Oxidising properties: No data available.
## Explosive limits
No data available.

### Other information
No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability
Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

#### 10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials
Strong oxidizing agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products
May include, and are not limited to: oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
</table>

#### 7005
- LD50 oral rat: > 2000 mg/kg
- LD50 dermal rabbit: > 2000 mg/kg
- LC50 inhalation rat: > 5 mg/l/4h

#### Propane (74-98-6)
- LC50 inhalation rat: 658 mg/l/4h

#### n-Heptane (142-82-5)
- LD50 dermal rabbit: 3000 mg/kg
- LC50 inhalation rat: 103 g/m³/4h

#### Butane (106-97-8)
- LC50 inhalation rat: 658 g/m³/4h

#### Asphalt (8052-42-4)
- LD50 oral rat: > 5000 mg/kg
- LD50 dermal rabbit: > 2000 mg/kg

#### Toluene (108-88-3)
- LD50 oral rat: > 5000 mg/kg
- LD50 dermal rat: 12124 mg/kg
- LD50 dermal rabbit: 8390 mg/kg
- LC50 inhalation rat: 28.1 mg/l/4h

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer.

#### Asphalt (8052-42-4)
- IARC group: 2B - Possibly carcinogenic to humans
- National Toxicity Program (NTP) Status: 5 - Twelfth Report - Items under consideration

#### Toluene (108-88-3)
- IARC group: 3 - Not classifiable

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Reproductive toxicity: Suspected of damaging the unborn child.
Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation: May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation. Intentional misuse of product by inhalation can result in asphyxiation or death.
Symptoms/injuries after skin contact: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

**SECTION 12: Ecological information**

**12.1. Toxicity**
Ecology - general: May cause long-term adverse effects in the aquatic environment.

**12.2. Persistence and degradability**

| 7005 | Persistence and degradability | Not established. |

**12.3. Bioaccumulative potential**

| 7005 | Bioaccumulative potential | Not established. |

**12.4. Mobility in soil**
No additional information available.
**12.5. Other adverse effects**

<table>
<thead>
<tr>
<th>Effect on ozone layer</th>
<th>No additional information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect on the global warming</td>
<td>No known ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

| Waste disposal recommendations | This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. |
| Additional information | Flammable vapors may accumulate in the container. Do not incinerate closed containers. |

**SECTION 14: Transport information**

In accordance with DOT

**14.1. UN number**

<table>
<thead>
<tr>
<th>UN-No.</th>
<th>UN1950</th>
</tr>
</thead>
</table>

**14.2. UN proper shipping name**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Aerosols, flammable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Classes</td>
<td>2.1</td>
</tr>
</tbody>
</table>

**14.3. Additional information**

| Other information | No supplementary information available. |
| Special transport precautions | Do not handle until all safety precautions have been read and understood. |

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

<table>
<thead>
<tr>
<th>n-Heptane (142-82-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
</tr>
</tbody>
</table>

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Listed on SARA Section 313 (Specific toxic chemical listings)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 313 - Emission Reporting</td>
</tr>
</tbody>
</table>

**15.2. US State regulations**

**7005**

| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. |
### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indication of changes</td>
<td>None.</td>
</tr>
<tr>
<td>Date of issue</td>
<td>07/10/2014</td>
</tr>
<tr>
<td>Other information</td>
<td>None.</td>
</tr>
</tbody>
</table>
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.