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

Product identifier
Product name 80-925 INTER-LUBE DELAYED VISCOSITY PENETRATING GREASE

Recommended use of the chemical and restrictions on use

Product code F00480
Product Type Extremely flammable aerosol
Synonyms None

Supplier's details

Recommended Use Lubricant.
Uses advised against No information available

Manufactured For:
Kimball Midwest
4800 Roberts Rd.
Columbus, OH 43228

Emergency telephone number
Chemical Emergency Phone Number Chemtrec 1-800-424-9300
Company Emergency Phone Number 1-800-233-1294
2. HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable aerosols</td>
<td>Category 1</td>
</tr>
<tr>
<td>Gases under pressure</td>
<td>Compressed Gas</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs (central nervous system and respiratory system) through prolonged or repeated exposure.
May be fatal if swallowed and enters airways
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

Precautionary Statements - Prevention
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
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
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

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell
3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # 110-54-3, HEXANE, MAY BE SUBSTITUTED FOR CAS # 64742-49-0, COMMERCIAL HEXANES.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE</td>
<td>110-54-3</td>
<td>20-30</td>
</tr>
<tr>
<td>PROPANE/ISOBUTANE/N-BUTANE</td>
<td>68476-86-8</td>
<td>20-30</td>
</tr>
<tr>
<td>ACETONE</td>
<td>67-64-1</td>
<td>10-20</td>
</tr>
<tr>
<td>NONYLPHENOXYPOLYETHOXYETHANOL</td>
<td>127087-87-0</td>
<td>1-10</td>
</tr>
<tr>
<td>POLYTETRAFLUOROETHYLENE</td>
<td>9002-84-0</td>
<td>0.1-1.0</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Avoid contact with skin, eyes, and clothing. Avoid breathing, vapors, mist, or gas.

Eye contact Rinse immediately with plenty of water and seek medical advice.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.

Ingestion Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.

Most important symptoms/effects, acute and delayed

Main Symptoms May cause skin irritation. Drowsiness. Dizziness. Difficulty breathing.
Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Unsuitable Extinguishing Media  Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Flammable or extremely flammable aerosol. Container may burst in fire.

Explosion Data
Sensitivity to Mechanical Impact  none.
Sensitivity to Static Discharge  Yes.

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. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Ensure adequate ventilation.

Environmental precautions

Environmental precautions  Report spills as required by local and federal regulations.

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  Contain liquid and collect with an inter, non-combustible material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions  Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products  Store away from strong oxidizers and acids.

Aerosol Level  3

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></td>
<td>TWA: 50 ppm</td>
<td>TWA: 500 ppm</td>
<td>IDLH: 1100 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin - potential significant contribution to overall exposure by the cutaneous route</td>
<td>TWA: 1800 mg/m³ (vacated) TWA: 50 ppm</td>
<td>TWA: 18 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 180 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>106-97-8: STEL: 1000 ppm</td>
<td>(vacated) TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>75-28-5: STEL: 1000 ppm</td>
<td>(vacated) TWA: 1800 mg/m³</td>
<td>TWA: 1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>106-97-8: (vacated) TWA: 800 ppm</td>
<td>106-97-8: TWA: 800 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75-28-5: TWA: 800 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>PROPANE/ISOBUTANE/N-BUTANE</td>
<td>STEL: 750 ppm</td>
<td>TWA: 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>68476-86-8</td>
<td>TWA: 500 ppm</td>
<td>TWA: 2400 mg/m³ (vacated) TWA: 750 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) STEL: 2400 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ACETONE 67-64-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: (American Conference of Governmental Industrial Hygienists)
OSHA: (Occupational Safety & Health Administration)
NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

Individual protection measures, such as personal protective equipment

- **Eye/Face Protection**: Safety glasses with side-shields.
- **Skin and body protection**: Chemical resistant apron. Protective gloves.
- **Respiratory protection**: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state**

- **Aerosol**

**Appearance**

- **Hazy**

**Color**

- **Light Amber**

**Odor**

- **Solvent**

**Odor Threshold**

- **No information available**

**Property**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>-96.4 °C / -141 °F</td>
<td>Based on propellant</td>
</tr>
</tbody>
</table>
Evaporation rate: No information available
Flammability (solid, gas): No information available
Flammability Limits in Air
  upper flammability limit: No information available
  lower flammability limit: No information available
Vapor pressure: No information available
Vapor density: No information available
Specific Gravity: 0.728
Water solubility: Practically insoluble
Partition coefficient: n-octanol/water: No information available
Autoignition temperature: No information available
Decomposition temperature: No information available
Viscosity: No information available
Explosive properties: No information available

VOC Content(%): 48.54

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Extremes of temperature and direct sunlight.

Incompatible Materials
Store away from strong oxidizers and acids.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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

Inhalation
Exposure to high vapour concentrations may cause nervous systems effects such as headache, nausea, and dizziness.

Eye contact
May cause slight irritation.

Skin contact
Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion
Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE 110-54-3</td>
<td>-</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>= 48000 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>ACETONE 67-64-1</td>
<td>-</td>
<td>20,000 mg/kg (Rabbit)</td>
<td>= 50100 mg/m³ (Rat) 8 h</td>
</tr>
</tbody>
</table>
Information on toxicological effects

Symptoms
Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. May cause mild irritation. Irritating to skin. Prolonged or repeated exposure may cause dermatitis. Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Irritating to skin.

Eye damage/irritation
Irritating to eyes.

Sensitization
No information available.

Germ Cell Mutagenicity
No information available.

Carcinogenicity
The table below indicates whether each agency has evaluated a listed ingredient as 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>POLYTETRAFLUOROLENE</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>9002-84-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**IARC**: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA**: (Occupational Safety & Health Administration)
X - Present

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

Specific target organ systemic toxicity (single exposure)
May cause drowsiness and dizziness.

Specific target organ systemic toxicity (repeated exposure)
Causes damage to organs through prolonged or repeated exposure.

Chronic toxicity
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.

Target Organ Effects
Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin.

Aspiration hazard
May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity
0.00001336% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>2276 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEmix (dermal)</td>
<td>5007 mg/kg</td>
</tr>
<tr>
<td>ATEmix (inhalation-dust/mist)</td>
<td>510.9 mg/l</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE 110-54-3</td>
<td>-</td>
<td>2.1 - 2.98 mg/L LC50 Pimephales promelas 96h flow-through</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PROPANE/ISOBUTANE/N-BUTANE 68476-86-8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
**F00480 - 80-925 INTER-LUBE DELAYED VISCOSITY PENETRATING GREASE**

**Revision Date** 17-Dec-2014

---

**ACETONE**  
67-64-1

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPANE/ISOButANE/N-BUTANE 68476-86-8</td>
<td>2.8</td>
</tr>
<tr>
<td>ACETONE 67-64-1</td>
<td>-0.24</td>
</tr>
</tbody>
</table>

**Persistence and degradability**  
No information available.

**Bioaccumulation**  
No information available.

**Chemical Name** | **log Pow**
---|---
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8 | 2.8
ACETONE 67-64-1 | -0.24

**Other adverse effects**  
No information available

---

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste Disposal Methods**  
Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging**  
Do not re-use empty containers.

---

### 14. TRANSPORT INFORMATION

**DOT Ground**  
CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY

**IATA**  
UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

**IMDG**  
UN1950, AEROSOLS, 2.1, LTD. QTY.

---

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PROPANE/ISOBUTANE/N-BUTANE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Not listed</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ACETONE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NONYLPHENOXYETHANOL</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
POLYTETRAFLUOROETHYLENE X X Not listed X X X X X

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE - 110-54-3</td>
<td>110-54-3</td>
<td>20-30</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute Health Hazard: Yes
- Chronic Health Hazard: Yes
- Fire Hazard: Yes
- Sudden Release of Pressure Hazard: Yes
- 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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>110-54-3</td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>ACETONE</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
No warning required.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANE 110-54-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ACETONE 67-64-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>POLYTETRAFLUOROETHYLENE 9002-84-0</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

EPA Pesticide Registration Number Not applicable
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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>2</td>
<td>4</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>2*</td>
<td>4</td>
<td>1</td>
<td>B</td>
</tr>
</tbody>
</table>

Chronic Health Hazard Legend

Repeated or prolonged exposure may cause central nervous system damage.

Prepared By: Regulatory Affairs
Issuing date: 17-Dec-2014
Revision Date: 17-Dec-2014
Revision Note: No information available

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