KEY INTERNATIONAL, INC.
4 Corporate Drive • Cranbury, New Jersey 08512 • (609) 619-3685 • Fax (609) 619-3686

MATERIAL SAFETY DATA SHEET
KEY-LUBE GREASE #’s 20630001, 20630002, 20630003, 20630004

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Emergency telephone number for accident or spill:
CHEMTREC 800-424-9300 (USA)
+1 703-527-3887 (outside USA-call collect)

Key International, Inc.
4 Corporate Drive
Cranbury, New Jersey 08512 USA
Main Telephone: 609-619-3685
Fax: 609-619-3686
E-mail: info@keyinternational.com

Product Name: KEY-LUBE GREASE (lubricant)
Chemical Name: Mixture
Chemical Family: Largely petroleum hydrocarbon

EMERGENCY OVERVIEW:
White Grease
Thermal decomposition will generate carbon dioxide, carbon monoxide, smoke or possibly metal oxide fumes.

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Components / Impurities: KEY-LUBE GREASE: Not classified as a dangerous product
Mixture: White mineral oil, Additives

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Content</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>75 to 100%</td>
<td>8042-47-5</td>
<td>232-455-8</td>
<td>----------</td>
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</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>1 to 5%</td>
<td>9002-84-0</td>
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</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

Eye Contact: Sustained contact with product in the eye may cause irritation.
Skin Contact: None during normal usage. Prolonged skin contact may cause redness or irritation.
Inhalation: Inhalation of product may cause irritation of the mucous membranes and respiratory tract.
Ingestion: Not an expected route of exposure. Ingestion may cause abdominal pain, nausea and vomiting.
SECTION 3 - HAZARDS IDENTIFICATION  (continued)

NFPA Hazard Rating:  
Health: 1 – Caution, May be irritating  
Flammability:  Computable if heated  
Reactivity:  0 – Stable, Not reactive when mixed with water  
Special Notice Key:  --------

SECTION 4 - FIRST AID MEASURES

Eye Contact:  Immediately flush eyes for 15 minutes with large amounts of water, while keeping the eyelids open.  Seek medical attention if irritation persists.
Skin Contact:  Wash skin thoroughly with mild soap and water.  Flush with luke-warm water for 15 minutes.  Seek medical attention if irritation persists.
Inhalation:  Remove victim from contaminated area to fresh air and keep at rest.  Call a physician.
Ingestion:  Never give anything by mouth to an unconscious person.  Rinse mouth with water, do not induce vomiting.  Call a Doctor.
Note to Physician:  Treat Symptomatically.

Medical Conditions Aggravated by Exposure:  None known.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:  482F (minimum).
Lower Flammable Limit:  Not determined
Auto Ignition Temperature:  Not determined
Extinguishing Media:  Foam, carbon dioxide (CO2), dry chemical, or water fog.
Unusual Fire Hazards:  None
Firefighting Procedures:  Use self-contained breathing apparatus (SCBA).  Do not enter fire area without proper protection.  Fight fire from safe distance.

Unsuitable extinguishing media:  Use of heavy stream of water may spread fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Environmental precautions:  Prevent entire to sewers and public waters
Clean up methods:  In case of spill, vacuum, scoop or shovel up spilled material.  Place spilled material into covered container for disposal.  Dispose of according to applicable local, state and federal regulations.
SECTION 7 - HANDLING AND STORAGE

Precautions in handling and storage: When using, do not eat, drink, or smoke.
Storage: Store in dry, cool, well-ventilated area. Keep only in original container.
Storage (away from): Strong oxidizers, open flame, sparks, heat sources. Prolonged exposure to sunlight. Combustible material. Keep away from ignition source, including static discharges.
Handling: Handle in accordance with good industrial hygiene and safety procedures.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Ensure adequate ventilation
Respiratory protection: Where exposure through inhalation may occur, approved respiratory protection equipment is recommended.
Hand protection: Wear suitable gloves resistant to chemical penetration
Skin protection: If skin contact or contamination of clothing is likely, protective clothing should be worn.
Eye protection: Chemical goggles or safety glasses
Ingestion: When using, do not eat, drink or smoke

Occupational Exposure Limits:
White mineral oil (petroleum): TLV®-TWA [mg/m³] : 5
Polytetrafluorethylene: TLV®-TWA [mg/m³](Respirable) 5
Polytetrafluorethylene: TLV®-TWA [mg/m³] (Total) 10
Polytetrafluorethylene: OSHA PEL [mg/m³] (Total) 15
Polytetrafluorethylene: OSHA PEL [mg/m³](Respirable) 5
When mists can occur the following are recommended:
Oil Mist, mineral: TLV®-TWA [mg/m³] 5
STEL [mg/m³] 10

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20ºC: Grease
Color: White – Translucent
Odor: Light odor of petroleum
Density [kg/m³]: 873
Viscosity: 104@40ºC cSt (base fluid)
Solubility water: Negligible
Solubility in: Oil
### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued)

- **Flash point [°C] (ASTM D 93):** 250 (482°F) PMCC
- **Explosion limits:** No reliable data available
- **Evaporation rate:** No reliable data available

### SECTION 10 - STABILITY AND REACTIVITY

- **Stability:** This material is stable under normal conditions
- **Reactivity:** This material is not reactive under normal conditions
- **Conditions to Avoid:** Avoid contact with heat, flames and sources of ignition including prolonged exposure to sunlight and sources of static discharge
- **Incompatibility:**
- **Materials to Avoid:** Strong oxidizing agents: liquid chlorine, hydrogen peroxide, concentrated oxygen, sodium hypochlorite, and calcium hypochlorite.
- **Hazardous Decomposition Products:** Polytetrafluoroethylene is contained in this product, which may form Hydrogen fluoride (HF) and Carbonyl fluorides from thermal decomposition. Carbon monoxide and carbon dioxide.

### SECTION 11 - TOXICOLOGY INFORMATION

- **Toxicology information:** Product not tested. No reliable data available
- **Inhalation:** May cause irritation to the respiratory tract
- **Dermal:** May produce skin irritation
- **Ocular:** May cause eye irritation
- **Ingestion:** May cause irritation
- **Rat oral LD50 [mg/kg]:** Product not tested. No reliable data available
- **Rabbit dermal LD50 [mg/kg]:** Product not tested. No reliable data available

### SECTION 12 - ECOTOXICOLOGY INFORMATION

- **Ecological effects information:** This product has not been tested for environmental effects. Low mobility (soil), Material is insoluble in water
- **Bioaccumulative potential:** Product not tested. No reliable data available
- **Persistence – degradability:** Product not tested. No reliable data available
- **CERCLA (US):** No known reportable quantities.
SECTION 13 - DISPOSAL INFORMATION

General: Dispose in a safe manner in accordance with local / national regulations. Material insoluble in water
Disposal method: Material, as supplied, is not a U.S. EPA hazardous waste. Some states may regulate the disposal of petroleum and petroleum products.
Do Not Incinerate Aerosol Cans.
Processing, use or contamination may make this information inaccurate or incomplete.

SECTION 14 - TRANSPORTATION INFORMATION

DOT (USA): Not regulated

SECTION 15 - REGULATORY INFORMATION

SARA TITLE III Section 311/312: None
SARA TITLE III Section 313: No known reportable quantities
New Jersey Right-To-Know: No known reportable quantities
Carcinogen classification: Not listed by NTP, IARC, or OSHA
US Toxic Substance Control Act-TSCA: All components of this product are listed on the TSCA inventory or otherwise comply with TSCA pre-manufacture notification requirements.
Other: Certified Kosher by Tablet K
Customers are reminded to check their state list of hazardous chemicals for proper disclosure and reporting of chemical substances.

SECTION 16 - BSE and TSE STATEMENT

Key-Lube tooling grease is formulated, produced and packaged for Key International by a specialty lubricant company here in New Jersey, USA.
It is fully synthetic and does not contain animal tissue or derivatives. (Nor are animals used in testing)
BSE and TSE requirements pertain to lubricants, which use animal oils, fats or animal by products, which is not applicable in the case of Key-Lube grease.
This lubricant carries an H1 rating with regard to food contact.
It also carries registration number (126374) with the NSF (nonfood program), which is a continuation of the USDA product approval and listing program, which requires compliance with current regulations.
SECTION 17 - OTHER

Original Issue: 07/24/98
Date of Revision 1: 03/06/2000
Date of Revision 2: 03/10/2003
Date of Revision 3: 12/03/2009
Date of Revision 4: 07/15/2013

Revision Number: 4

Reason for revision: General review and reconfirmation, addition of BSE and TSE statement

Prepared By: Regulation Department, Key International, Inc.
Per documents provided by Bel-Ray Company, Inc.

File Reference: Master Key-Lube December 2009
MSDS Number: 20630001, 20630002, 20630003, 20630004

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, KEY INTERNATIONAL, INC. makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Users should satisfy themselves that they have all the current data relevant to a particular use.

KEY-LUBE Part Number Legend

#20630001 = 1 pt. Cans, 12 per case
#20630002 = 14 oz. Cartridges, 12 per case
#20630003 = 16 gal. Drum
#20630004 = 55 gal. Drum

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