Plumbers' Grease Stem Lube
Distributed by Kings Supply Company
1-888-852-5340 FAX 1-877-455-4647

IDEAL* FG 2 GREASE

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Rule and this document has been prepared in accord with the MSDS requirements of the rule.

Trade Name
IDEAL FG 2 GREASE (FORMERLY ARECWHITE 2 GREASE)

Other Names
CALCIUM SALT SOAP GREASE LUBRICANT
COMPLIES WITH 21 CFR 178.3570 AND MEETS N.L.G.I. GRADE 2
USDA AUTHORIZED "H-1" LUBRICANT FOR INCIDENTAL FOOD CONTACT

Chemical Family
PETROLEUM HYDROCARBONS AND ADDITIVES

Generic Name
CALCIUM SALT SOAP/PETROLEUM GREASE

DOT Hazardous Materials Proper Shipping Name
NOT A DOT "HAZARDOUS MATERIAL"

Company ID No.
1848118481

DOT Hazard Class
NOT REGULATED

UN/NA ID No.
NOT REGULATED

MAY CAUSE MILD SKIN IRRITATION AND INFLAMMATION FOLLOWING EXTENDED CONTACT.
AVOID PROLONGED AND/OR REPEATED SKIN CONTACT.
WASH THOROUGHLY AFTER HANDLING.

FOR SPECIAL INSTRUCTIONS FOR INJURIES RESULTING FROM HIGH-PRESSURE SKIN INJECTION, SEE SECTION VII. "EMERGENCY MEDICAL TREATMENT PROCEDURES" AND SECTION XI. "HANDLING, STORAGE, AND DECONTAMINATION PROCEDURES".

Flash Point (Method)
AP 320°F (D-92)
SEE "FIRE & EXPLOSION HAZARDS"

Autoignition Temperature (Method)
AP 650°F (EST.)
BASED UPON "WHITE MINERAL OIL"

Flammable Limits (% Vol. in Air)
Lower N/AP Upper N/AP

Fire and Explosion Hazards
SLIGHTLY COMBUSTIBLE! OSHA/ NFPA CLASS IIIIB COMBUSTIBLE LIQUID. WHEN HEATED ABOVE ITS FLASH POINT, THIS MATERIAL WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN THE OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO AN IGNITION SOURCE. MISTS OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE NORMAL FLASH POINT. KEEP AWAY FROM EXTREME HEAT AND OPEN FLAME.

Extinguishing Media
DRY CHEMICAL WATERSPRAY
INERT GAS - HALON/N2
FOAM FOAM AND WATER FOAM ARE EFFECTIVE BUT MAY CAUSE PROTHING.

Special Firefighting Procedures
FOR FIRES INVOLVING THIS MATERIAL: DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER. IMPROPER USE OF WATER AND EXTINGUISHING MEDIA CONTAINING WATER MAY CAUSE PROTHING WHICH CAN SPREAD THE FIRE OVER A LARGER AREA.

SEQ: 31 FOR "DISCLAIMER OF LIABILITY." SEE THE STATEMENT ON PAGE 4.
Plumbers' Grease Stem Lube

Summary of Acute Hazards:

**NOT EXPECTED TO PRESENT A SIGNIFICANT HEALTH HAZARD UPON SHORT-TERM EXPOSURE.**

<table>
<thead>
<tr>
<th>ROUTE OF EXPOSURE</th>
<th>SIGNS AND SYMPTOMS</th>
<th>Primary Route?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.</td>
<td></td>
</tr>
<tr>
<td><strong>Eye Contact</strong></td>
<td>TESTS ON SIMILAR MATERIALS SUGGEST THAT NO IRRITATION IS EXPECTED FROM SHORT-TERM EXPOSURE.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin Absorption</strong></td>
<td>TESTS ON SIMILAR MATERIALS SUGGEST THAT NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin Irritation</strong></td>
<td>TESTS ON SIMILAR MATERIALS INDICATE THAT NO IRRITATION IS EXPECTED FROM SHORT-TERM EXPOSURE.</td>
<td></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>SWALLOWING THIS MATERIAL MAY CAUSE GASTROINTESTINAL DISTURBANCES SUCH AS NAUSEA, VOMITING, AND DIARRHEA.</td>
<td></td>
</tr>
</tbody>
</table>

Summary of Chronic Hazards and Special Health Effects:

PROLONGED AND/OR REPEATED SKIN CONTACT WITH THIS MATERIAL MAY PRODUCE SKIN IRRITATION AND INFLAMMATION.

PERSONNEL WITH PRE-EXISTING SKIN DISORDERS SHOULD AVOID CONTACT WITH THIS PRODUCT.

Respiratory:

NOT APPLICABLE.

Eye:

SAFETY GLASSES SHOULD BE ADEQUATE PROTECTION UNDER NORMAL CONDITIONS OF USE. IF POTENTIAL EXPOSURE TO HIGH-PRESSURE MATERIAL EXISTS, THEN A FACE SHIELD AND/OR CHEMICAL GOGGLES ARE ALSO RECOMMENDED. (SEE SECTION XI.)

Skin:

AVOID PROLONGED AND/OR REPEATED SKIN CONTACT. OR WEAR IMPERVIOUS PROTECTIVE CLOTHING. WHEN LEAVING WORK, WASH HANDS/EXPOSED SKIN WITH SOAP AND WATER. (SEE "OTHER HYGIENIC & WORK PRACTICE").

Engineering Controls:

NONE IS NEEDED UNDER ANTICIPATED CONDITIONS OF USE.

Other Hygienic and Work Practices:

WASH HANDS WITH PLENTY OF SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USE OF TOILET FACILITIES. DO NOT USE GASOLINE, SOLVENTS, KEROSENE, OR HARSH ABRASIVE SKIN CLEANERS FOR WASHING EXPOSED SKIN AREAS. TAKE A SHOWER AFTER WORK IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDER BEFORE REUSE. LAUNDER OR DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Source</th>
<th>Date</th>
<th>Type</th>
<th>Value/Units</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT APPLICABLE - SEE SECTION XI.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
**Plumbers' Grease Stem Lube**

**IDEAL* FG 2 GREASE**

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**Inhalation**

NOT APPLICABLE.

**Eye Contact**

FLUSH EYES WITH CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. OCCASIONALLY LIFTING THE EYELIDS. IF PAIN OR REDNESS PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION.

**Skin Contact**

REMOVE BY WIPING; THEN WASH SKIN THROUGHFULLY WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

**Ingestion**

INGESTION IS UNLIKELY. HOWEVER, IF MORE THAN A HALF-CUP FULL OF THIS MATERIAL IS SWALLOWED, GIVE QUANTITIES OF WATER, INDUCE VOMITING, AND PROMPTLY OBTAIN MEDICAL ATTENTION.

**Emergency Medical Treatment Procedures**

HIGH-PRESSURE INJECTIONS IN UNDERLYING TISSUE: IMMEDIATE TREATMENT SHOULD INCLUDE EXTENSIVE INCISION, DEBRIDEMENT, AND SALINE IRRIGATION. INADEQUATE TREATMENT MAY RESULT IN TISSUE ISCHEMIA AND GANGRENE. EARLY SYMPTOMS MAY BE MINIMAL. (SEE SECTION XI.)

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**Spill and Disposal**

CONTAIN LARGE SPILLS AND KEEP IT OUT OF ALL WATER BODIES. IF POSSIBLE, SAFELY STOP THE FLOW OF SPILL. HOT PRODUCT WILL SOLIDIFY UPON COOLING AND CAN BE SHOVELLED INTO PROPER CONTAINERS SUITABLE FOR REUSE OR DISPOSAL. IN URBAN AREAS CLEANUP AS SOON AS POSSIBLE. IN NATURAL ENVIRONMENTS, CLEANUP ON ADVICE OF ECOLOGIST TO MINIMIZE PHYSICAL HABITAT DAMAGE. EQUIP CLEANUP CREWS WITH PROPER PROTECTIVE EQUIPMENT AND COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO NATIONAL RESPONSE CENTER (800/424-8802). TEST RESULTS SHOW THAT INCIDENTAL LEAKAGE OR SPILLS CONSISTENT WITH REGULAR USE (85 LBS OR LESS) PRESENT NO HAZARD TO THE ENVIRONMENT.

MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE MAY CAUSE THIS MATERIAL TO BECOME A "HAZARDOUS WASTE" AS DEFINED BY STATE OR FEDERAL LAWS. USE APPROVED TREATMENT, TRANSPORTERS, AND DISPOSAL SITES IN COMPLIANCE WITH ALL APPLICABLE LAWS. POTENTIAL DISPOSAL METHODS INCLUDE INCINERATION AND LAND DISPOSAL IF PERMITTED.

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**Component Name**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CANS. No.</th>
<th>Carcinogen##</th>
<th>Composition amount (Wt%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITE MINERAL OIL (PETROLEUM)</td>
<td>8042-47-5*</td>
<td>N/AP</td>
<td>75 TO 85 PERCENT</td>
</tr>
<tr>
<td>12-HYDROXYSTEARIC ACID, CALCIUM SOAP</td>
<td>1562-62-4</td>
<td>N/AP</td>
<td>5 TO 15 PERCENT</td>
</tr>
<tr>
<td>POLYISOBUTYLENE</td>
<td>9003-27-4</td>
<td>N/AP</td>
<td>5 TO 10 PERCENT</td>
</tr>
<tr>
<td>ADDITIVE MIXTURE: RUST, OXIDATION, AND CORROSION INHIBITORS</td>
<td>N/AP LT</td>
<td></td>
<td>1 PERCENT</td>
</tr>
</tbody>
</table>

## Listed By: 1 = NTP, 2 = IARC, 3 = OSHA, 4 = Other

Compositions given are typical values, not specifications.
# Plumbers' Grease Stem Lube

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>600°F</td>
</tr>
<tr>
<td>Viscosity Units, Temp. (Method)</td>
<td>AP 70 SUS AT 100°F</td>
</tr>
<tr>
<td>Dry Point</td>
<td>N/AP</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/AP</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NM HG AT 70°F, Lt. 0.1</td>
</tr>
<tr>
<td>Volatile Characteristics</td>
<td>NEGLIGIBLE</td>
</tr>
<tr>
<td>Specific Gravity $H_2O = 1$ at 32.2°F</td>
<td>0.88</td>
</tr>
<tr>
<td>Vapor Sp. Gr. [Air = 1.0 at 60°-80°F]</td>
<td>1.0</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>NEGLIGIBLE</td>
</tr>
<tr>
<td>pH</td>
<td>N/AP</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>NOT EXPECTED TO OCCUR</td>
</tr>
<tr>
<td>Other Chemical Reactivity</td>
<td>VISCOSITY</td>
</tr>
<tr>
<td>Stability</td>
<td>STABLE</td>
</tr>
<tr>
<td>Other Physical and Chemical Properties</td>
<td>VISCOSITY SHOWN ABOVE IS FOR THE OIL COMPONENT ONLY. VISCOSITY INDEX = AP 100; WORKED PENETRATION = AP 280 (ASTM D-217); DROPPING POINT = GT 260°F (D-586).</td>
</tr>
<tr>
<td>Appearance, and Odor</td>
<td>OPAQUE, NEARLY COLORLESS TO WHITE-COLORED; SMOOTH-TEXTURED, SEMI-SOLID; PRACTICALLY ODORLESS.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>EXTREME HEAT AND OPEN FLAME.</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>STRONG ACIDS, ALKALIES, AND OXIDIZERS SUCH AS LIQUID CHLORINE AND OXYGEN.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE AND TRACE OXIDES AND/OR COMPOUNDS OF CALCIUM.</td>
</tr>
</tbody>
</table>

**Handling, Storage, and Decontamination Procedures**

High-pressure skin injection injuries: Hydrocarbons which are handled in high-pressure grease guns or hydraulic lines may be accidentally injected into the eyes, skin, and/or underlying tissue. Hydrocarbons injected into underlying tissues are not readily removed by body fluids and can cause pain, rapid swelling, chemical irritation and infection. Workers must be trained in the danger of this type of injury and should seek special medical attention if injected accidentally.

No special exposure standards/control limits have been established for this material.

**General Comments**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the mixture itself.

**Note**

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ</td>
<td>Equal</td>
</tr>
<tr>
<td>AP</td>
<td>Approximately</td>
</tr>
<tr>
<td>LT</td>
<td>Less Than</td>
</tr>
<tr>
<td>UK</td>
<td>Unknown</td>
</tr>
<tr>
<td>GT</td>
<td>Greater Than</td>
</tr>
<tr>
<td>TR</td>
<td>Trace</td>
</tr>
<tr>
<td>N/P</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>N/AP</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>N/DA</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

**Disclaimer of Liability**

The information in this MSDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS ACCURACY. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
XII. Regulatory Information

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III
SECTION 311/312 HAZARD CATEGORIES
DELAYED (CHRONIC) HEALTH HAZARD

SECTION 313
NO CHEMICALS IN THIS PRODUCT EXCEED THE DE MINIMUS REPORTING LEVEL ESTABLISHED BY SARA
TITLE III, SECTION 313 AND 40 CFR 372.

TOXIC SUBSTANCES CONTROL ACT (TSCA)
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA)
NO CHEMICALS IN THIS PRODUCT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF CERCLA.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 - PROPOSITION 65
BASED ON INFORMATION CURRENTLY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY CHEMICALS
CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE TOXINS UNDER CALIFORNIA PROPOSITION 65 AT-LEVELS
WHICH WOULD BE SUBJECT TO THE PROPOSITION. IF YOU REFORMULATE OR FURTHER PROCESS THIS PRODUCT,
YOU SHOULD FURTHER EVALUATE THIS PRODUCT BASED UPON SUCH REFORMULATION OR PROCESSING, AS WELL AS
UPON ITS FINAL COMPOSITION AND USE.
Use Statement: FOR INDUSTRIAL USE ONLY

Signal Word: CAUTION

Physical Hazards:
SLIPPING HAZARD ON SMOOTH, HARD WALKING AREA.

Health Hazards:
SKIN CONTACT HAZARD
SKIN IRRITATION FOLLOWING EXTENDED CONTACT
HIGH-PRESSURE INJECTION CAUSES TISSUE DAMAGE

Precautionary Measures:
REMOVE SPILLAGE IMMEDIATELY FROM HARD, SMOOTH WALKING AREAS.
AVOID OXIDIZING AGENTS.
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.
USE ONLY WITH ADEQUATE VENTILATION/PERSOAL PROTECTION.
AVOID HIGH-PRESSURE HYDRAULIC SYSTEM LEAKS.
WASH THOROUGHLY AFTER HANDLING.
PREVENT CONTACT WITH FOOD, CHEWING, OR SMOKING MATERIALS.
DO NOT TAKE INTERNALLY.

DOT Information:
UN/NA ID Number- NOT REGULATED
Hazard Class- NOT REGULATED
Proper Shipping- NOT A D.O.T. "HAZARDOUS MATERIAL"

Instructions:
In case of fire, use:
DRY CHEMICAL WATERSPRAY
CO2 INERT GAS - HALON/N2

First Aid - Inhalation: NOT APPLICABLE.

Eye Contact:
FLUSH EYES WITH CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE EYELIDS. IF PAIN OR REDNESS PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION.

Skin Contact:
REMOVE BY WIPING; THEN WASH SKIN THOROUGHLY WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

Ingestion:
INGESTION IS UNLIKELY. HOWEVER, IF MORE THAN A HALF-CUP FULL OF THIS MATERIAL IS SWALLOWED, GIVE QUANTITIES OF WATER, INDUCE VOMITING, AND PROMPTLY OBTAIN MEDICAL ATTENTION.

In case of spill:
CONTAIN LARGE SPILLS AND KEEP IT OUT OF ALL WATER BODIES. IF POSSIBLE, SAFELY STOP THE FLOW OF SPILL. NOT PRODUCT WILL SOLIDIFY UPON COOLING AND CAN BE SHOVED INTO PROPER CONTAINERS SUITABLE FOR REUSE OR DISPOSAL. IN URBAN AREAS CLEANUP AS SOON AS POSSIBLE. IN NATURAL ENVIRONMENTS, CLEANUP ON ADVICE OF ECOLOGIST TO MINIMIZE PHYSICAL HABITAT DAMAGE. EQUIP CLEANUP CREWS WITH PROPER PROTECTIVE EQUIPMENT AND COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO NATIONAL RESPONSE CENTER (202/424-8802). TEST RESULTS SHOW THAT INCIDENTAL LEAKAGE OR SPILLS CONSISTENT WITH REGULAR USE (25 LBS OR LESS) PRESENT NO HAZARD TO THE ENVIRONMENT.

Protective Equipment:
Respiratory: NOT APPLICABLE.

Eye:
SAFETY GLASSES SHOULD BE ADEQUATE PROTECTION UNDER NORMAL CONDITIONS OF USE. IF POTENTIAL EXPOSURE TO HIGH-PRESSURE MATERIAL EXISTS, THEN A FACE.

Skin:
AVOID PROLONGED AND/OR REPEATED SKIN CONTACT; OR WEAR IMPERVIOUS PROTECTIVE CLOTHING. WHEN LEAVING WORK, WASH HANDS/EXPOSED SKIN WITH SOAP AND WATER.