

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: WHITE KNIGHT™
Chemical Family: Synthetic and white mineral oil
Use: Food machinery anti-seize for use in food contact applications.

Manufacturer/Supplier: JET-LUBE, INC.
Address: 4849 Homestead Rd., Ste. #200
Houston, TX, 77028 USA **Phone:** 713-674-7617
Emergency Phone: 713-674-7617 **Fax:** 713-678-4604
Chemtrec 24 hours (USA): 800-424-9300

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Nonhazardous Blend	82980549/8042475 9003296/9002840 68411461/122394 14807966/471341 1314132	100	UN	UN	UN

Main Hazards—Health Effects

Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea.
Skin: For hypersensitive persons, may irritate the skin after prolonged periods of contact.

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Wash out mouth immediately. Consult physician. **Skin:** Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist.

Unsuitable Extinguishing Media: Water jet. **Protective Equipment for Fire fighting:** Self-contained breathing apparatus.

Personal Precautions: Wear gloves & protective overalls. **Environmental Precautions:** Do not allow it to enter drains. **Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: No special handling precautions necessary. **Storage:** Do not store at elevated temperatures.

Respiratory Protection: None needed.

Hand Protection: Protective gloves for hypersensitive persons.

Eye Protection: Glasses, if applied to parts in motion.

Body Protection: Overalls.

Physical State: Semisolid paste **Color:** Opaque, white/off-white **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** <600 (316)

Melting Point °F (°C): 525 (274) **Flash Point (COC) °F (°C):** >400 (204) **Autoignition Temperature °F (°C):** >500 (260)

Explosive Properties: LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A

Vapor Pressure (kPa): <0.01 **Percent Volatiles:** Nil **Density (g/cm³):** 1.17 **Flammability:** Not flammable at ambient temp.

OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Nil **Vapor Density:** >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temps. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon. Residue mainly comprised of soot & oxides.

Acute Toxicity: Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.

Genotoxicity: None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A **Carcinogen:** NTP: No IARC: No **OSHA:** No **EC Class (67/548/EEC):** No **Allergens:** None known. **LC-50:** >4000mg/kg (extrapolated from component data-mysidopsis bahia) **LD-50:** N/A

Possible Effects: None

Behavior: Relatively well behaved. Bioaccumulation potential nil.

Environmental Fate: Highly unlikely to cause contamination. Nontoxic to marine or land organisms.

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice.

Container Disposal: Pails without liner—see Product Disposal section above. Pails with plastic liner—pail may only be disposed of via standard waste disposal services, recycled or reused. **Liner—see Product Disposal section above.**

Not classified as hazardous for transport.

D.O.T.: Nonhazardous **UN No.:** N/A

Air Transport (ICAO & IATA): N/A

Sea Transport (IMO & IMDG): N/A **Road & Rail Transport (ADR/RID):** N/A

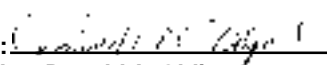
Labeling Information: None needed **EC Annex 1 Classification:** Not Applicable. **R Phrases:** R22—harmful if swallowed.

S Phrases: None applicable, as known. **Ozone Depleting Chemicals:** Not applicable. **TSCA:** All components are listed.

WHMIS (Canada): Not regulated. **Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A

SARA 311/312: Zinc Oxide **CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous **TSCA 12B Components:** None

SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: March 5, 2001

As of issue date, the information contained herein is accurate and reliable to the best of JET-LUBE'S knowledge. JET-LUBE® does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

LEGEND

- I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY
- II. COMPOSITION INFORMATION ON INGREDIENTS
- III. HAZARDS IDENTIFICATION
- IV. FIRST AID MEASURES
- V. FIRE FIGHTING MEASURES
- VI. ACCIDENTAL RELEASE MEASURES
- VII. HANDLING AND STORAGE
- VIII. EXPOSURE CONTROL/PERSONAL PROTECTION
- IX. PHYSICAL AND CHEMICAL PROPERTIES
- X. STABILITY AND REACTIVITY
- XI. TOXICOLOGICAL INFORMATION
- XII. ECOLOGICAL INFORMATION
- XIII. WASTE DISPOSAL
- XIV. TRANSPORT INFORMATION
- XV. REGULATORY INFORMATION
- XVI. OTHER INFORMATION

HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	

NFPA SYMBOL



WHITE KNIGHT™

FOOD GRADE ANTI-SEIZE COMPOUND

DESCRIPTION

WHITE KNIGHT™ is a premium quality anti-seize compound developed specifically for use in applications where incidental food contact is possible. This aluminum complex based anti-seize is composed entirely of ingredients that meet USDA/FDA requirements and protects metal parts from seizure, galling, rust, corrosion and heat freeze by tenaciously adhering to the metal surface. **WHITE KNIGHT** provides a degree of safety and protection unsurpassed by any other product.

- Contains no metals
- Nonstaining
- Water resistant
- Prevents rust and corrosion
- Reduces torque
- Aids assembly/disassembly
- Off white in color
- May be used with potable water
- Odorless
- Tasteless

APPLICATIONS

Bottling Machinery	Nuts, Bolts, Screws
Pump Gears, Motors	Chain Drives
Packaging Machinery	Stainless Steel Fittings
Conveyor & Oven Bearings	Pipe Fittings
Valve Assemblies	Gaskets
Press Fit Assemblies	Worm Gears

SERVICE RATING:

-65°F (-54°C) to 1800°F (982°C)

CONFORMS TO:

Military Specification MIL-PRF-907E

Authorized by USDA for use in Federally Inspected Meat and Poultry Plants (Authorized Category H-1).
Conforms to FDA Regulation CFR 21, Part 178,3570, Incidental Food Contact.

PRODUCT CHARACTERISTICS

Thickener	Aluminum Complex
Fluid Type	Mineral Oil & Synthetic
Color/Appearance	White Paste
Dropping Point (ASTM D-566)	450°F (232°C)
Specific Gravity	1.17
Density (lb/gal) Typical	9.80
Oil Separation, Wt. % Loss @ 212°F (100°C)	>3.0
Flash Point (ASTM D-92)	>400°F (204°C)
Coefficient of Friction on Stainless Steel	0.11
NLGI Grade	1½
Penetration @ 77°F (ASTM D-217)	285 - 315
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4-Ball (ASTM D-2596)	
Weld Point, kgf	400
Load Wear Index	72
Salt Fog Resistance (ASTM B-117)	
20% NaCl at 100°F, Hrs. Free of Corr.	+200

PACKAGING

Code No.	Container Size	Container
16402	½ lb.	Brush Top Can
16404	1 lb.	Brush Top Can

LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

CORPORATE LOCATIONS

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada

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