

BLUE COMPLEX HT GREASE™

DESCRIPTION

JET-LUBE's BLUE COMPLEX HT GREASE™ is designed to lubricate ball, roller and journal bearings for prolonged periods of time at high temperatures and under conditions of load. This product utilizes a high temperature calcium complex thickener to provide outstanding resistance to water wash out and leakage at high temperature resulting in longer service life.

BLUE COMPLEX HT develops its load carrying properties from the Calcium Acetate and Calcium Carbonate built into the complex soap thickener as opposed to organo-metallic and organo-sulfur compounds that attack elastomeric components at temperatures above 250°F. Because of this, **BLUE COMPLEX HT** can be utilized at higher operating temperatures. The highly refined petroleum oils utilized have a beneficial, slightly plasticizing property to aid in elastomer property retention at elevated temperatures.

BLUE COMPLEX HT is also available in a soft NLGI "0" and "00" consistencies that utilizes a special arctic base oil for easy dispensing at low temperatures and through all types of central lube systems.

- Available in NLGI Grades 00, 0 and 2
- Wide range of operating temperatures.
- Calcium complex thickened.
- Water resistant.
- Good shear stability.
- High film strength for superior performance under loaded conditions.
- Operating range: NLGI 2: 0°F to 350°F
NLGI "0" & "00": -31°F to 350°F
- No organic EP/AW additives for better high temperature elastomer and alloy compatibility.

APPLICATIONS

This grease is recommended as a multipurpose product for the lubrication of both over-the-road and off-highway trucks, tractors and heavy duty equipment. It lubricates and protects fifth wheels, king pins, wheel bearings, steering systems, all chassis points, valve actuators, valve stems, kiln wheels and mining equipment.

PRODUCT CHARACTERISTICS

Color/Appearance	Blue Grease, Low Odor
Thickener	Calcium Complex
Dropping Point (ASTM D-566)	>600°F (316°C)
Specific Gravity	0.94
NLGI Grade	2, 0, 00
Cone Penetration (ASTM D-217)	
60 Strokes, NLGI 2	265 - 295
60 Strokes, NLGI 0	355 - 385
60 Strokes, NLGI 00	400 - 430
4-Ball E.P. Test (ASTM D-2596)	
Weld Point, kgf	≥250
Base Oil Viscosity	
cSt @ 40°C, NLGI 2	200 typ.
cSt @ 40°C, NLGI 0, 00	40 typ.
Base Oil Specific Gravity	0.9
Copper Strip Corrosion	1B typical

Shelf Life: Minimum two years from manufacture date.

PACKAGING

NLGI GRADE 2

Code No.	Container Size	Container
75550	14 oz.	Cartridge
75516	35 lbs.	Pail
75524	120 lbs.	Keg
75529	400 lbs.	Drum

NLGI GRADE 0

75450	14 oz.	Cartridge
75416	35 lbs.	Pail
75424	120 lbs.	Keg
75429	400 lbs.	Drum

NLGI GRADE 00

75324	120 lbs.	Keg
75329	400 lbs.	Drum

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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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: **BLUE COMPLEX HT GREASE**
Chemical Family: Calcium Complex Grease
Use: Lubrication of plain and antifriction bearings

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
Petroleum Oils	64742525/64742638	70-90	Oil Mist	N/A	N/A
Calcium Complex	64742570 68307-87-9	15-20	TWA-5mg/M ³ 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 Gel **Color:** Blue Grease **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** >525 (274)
Melting Point °F (°C): 600 (315) **Flash Point (COC) °F (°C):** >430 (221) **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):** 0.94 **Flammability:** Not flammable at ambient temperature.
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 & mineral 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 Classification (67/548/EEC): No **Allergens:** None known. **LC-50:** >2000mg/kg—extrapolated from component data. **LD-50:** N/A

Possible Effects: None

Behavior: Relatively well behaved. Bioaccumulation potential nil.

Environmental Fate: Highly unlikely to cause noticeable 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.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous
Sea Transport (IMO & IMDG): Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous

Labeling Information: None needed **EC Annex 1 Classification:** N/A **R Phrases:** R22 harmful if swallowed (could block passages)
S Phrases: N/A, as known. **Ozone Depleting Chemicals:** N/A **TSCA:** All components are listed. **WHMIS (Canada):** Not controlled.
Canadian DSL: All components listed. **40 CFR Part 372 (SARA Section 313):** None **CERCLA:** Nonhazardous
RCRA Hazard Class: Nonhazardous **SARA 311/312:** None **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: February 25, 2009

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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	1
FLAMMABILITY	1
REACTIVITY	0
PPI	NR

NFPA SYMBOL

