



# **CHRISTO-LUBE™ MCG 132 PFPE Grease for**

## **Corrugator Roll Bearings**

---

### **Lubrication Technology Inc.**

**7595 Gallia Pike**

**Franklin Furnace, OH 45629**

**Phone: (740) 574-5150**

**Toll-free: (800) 477-8704**

**Fax: (740)-574-4740**

**E-mail: [sales@lubricationtechnology.com](mailto:sales@lubricationtechnology.com)**

## **CHRISTO-LUBE® MCG 132 PFPE Grease for Corrugator Roll Bearings**

*Successfully used in corrugator roll bearings since 1992.*

Lubrication Technology, Inc. manufactures high technology synthetic lubricants based on perfluoropolyethers, fluorinated polysiloxanes, esters, polyalphaolefins and synthetic hydrocarbon cooligimers under the trade name **CHRISTO-LUBE®**.

### **CHRISTO-LUBE® MCG 132**

**CHRISTO-LUBE® MCG 132** perfluoropolyether (PFPE/PTFE) grease lubricant was designed specifically to meet the needs of heated corrugator roll bearings. **CHRISTO-LUBE® MCG 132** is chemically inert and withstands extreme environments, including high temperatures. **CHRISTO-LUBE® MCG 132** offers increased bearing life, less-frequent lubrication, and less downtime when compared to conventional lubrication. It contains a PFPE-soluble corrosion inhibitor that offers better protection and less noise than solid corrosion inhibitors. The product is entirely compatible with other fluorinated corrugator roll lubricants, and has been used successfully in corrugator roll bearings since 1992.

### **Availability**

**CHRISTO-LUBE® MCG 132** is a stock item and usually ships within two days of an order. The product is available in 28-oz. grease gun cartridges and 75-lb. straight-sided 5-gallon pails. Please contact Gary Goodan, President, at 740-574-5150 or 800-477-8704 for pricing, packaging, and ordering information, or to discuss the specifics of your application requirements.

# LUBRICATION TECHNOLOGY INC.

7595 Gallia Pike  
Franklin Furnace, Ohio, USA 45629  
Phone: 740-574-5150  
Fax: 740-574-4740

## CHRISTO-LUBE® MCG 132

CHRISTO-LUBE® MCG 132 is a wide temperature range, perfluoropolyether grease which was developed for use in low-pressure systems where non-reactivity with chemicals including strong acids and oxidizers, fuels, solvents, etc. is an important factor. The grease is suitable for use in applications including electrical contacts, gears, valves, screws, bearings, and in systems employing elastomeric and plastic seals, gaskets, and o-rings. Although CHRISTO-LUBE® MCG 132 is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the grease under certain extreme conditions.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUE
Temperature Range			-29°C to 260°C
NLGI No.			2
Worked Penetration	ASTM D-1403	60 strokes	265-295
Evaporation	ASTM D-2595	22 hrs, 204°C, max	1.00%
Copper Corrosion	FED-STD-791, Method 5309	24 hrs, 100°C	1a
Oil Separation	FED-STD-791, Method 321	30 hrs, 204°C, max	12.00%
Low Temperature Torque	ASTM D-1478	@-29°C, Starting, max 60 min Running, max	6500 g-cm 4875 g-cm
High Temperature Bearing Performance	ASTM D-3336	204°C, 10,000 rpm	1000 hrs +
LOX Impact Sensitivity	ASTM D-2512	20 Impacts from 1100 mm	No Reaction

### FREE OF OZONE DEPLETION COMPOUNDS (ODC)

This information gives typical properties only and is not to be used for specification purposes. Lubrication Technology Inc. does not make any warranty, express or implied, or accept any liability in connection with this information or its use. Lubrication Technology Inc. reserves the right to make additions, deletions or modifications to the information at any time without prior notification. For any health, hazard or environmental concerns, please refer to this products Material Safety Data Sheet.

# Material Safety Data Sheet

# U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

<b>IDENTITY (As Used on Label and List)</b>  CHRISTO-LUBE MCG 132	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space is marked to indicate that.
---	--

## Section I

<b>Manufacturer's Name:</b> Technology Inc.	Lubrication	<b>Emergency Telephone Number:</b> (740) 574-5150
<b>Street Address:</b>	7595 Gallia Pike	<b>Telephone Number for Information:</b> (740) 574-5150
<b>City and State:</b>	Franklin Furnace, Ohio	<b>Date Prepared</b> 1/24/2006
<b>ZIP Code:</b>	45629	<b>Signature of Preparer (optional)</b>

## Section II - Hazard Ingredients/Identity Information

Hazardous Components (Chemical Identity; Common Name(s)) CAS NO.	OSHA	ACGIH	Other Limits	% (optional)
	PEL	TLV	Recommended	
No hazardous ingredients contained. Non-carcinogenic. Threshold Limit Value: LD50>40 g/kg ACGIH Threshold Limit Value: LD50>40 g/kg Free of Ozone depleting compounds. Perfluoropolyether (PFPE) 6991-61-3 Polytetrafluoroethylene (PTFE) 9002-84-0				OSHA Threshold Limit Value: LD50>40 g/kg

## Section III - Physical/Chemical Characteristics

<b>Boiling Point</b> N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b> 1.990
<b>Vapor Pressure (mm Hg.)</b> less than 10 <sup>-7</sup> mm @ 20°C	<b>Melting Point</b> Above 250°C
<b>Vapor Density (AIR = 1)</b> N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b> N/A
<b>Solubility in Water</b> Insoluble	<b>Appearance and Odor</b> White, odorless

## Section IV - Fire and Explosion Hazard Data

<b>Flash Point (Method Used)</b> N/A	<b>Flammable Limits :</b> N/A	<b>LEL</b> N/A	<b>UEL</b>
N/A			
<b>Extinguishing Media</b> N/A			
<b>Special Fire Fighting Procedures:</b> Self contained breathing apparatus and protective clothing recommended.			
<b>Unusual Fire and Explosion Hazards:</b> Decomposition at temperatures above 290°C may cause the evolution of toxic gaseous fluorine compounds.			

(Reproduce locally)

OSHA 174, Sept. 1985

## Section V - Reactivity Data

<b>Stability:</b> Unstable ___ Stable <u>XX</u>	<b>Conditions to Avoid:</b> Avoid heating above 250°C.
<b>Incompatibility (Materials to Avoid):</b> Strong or not aqueous alkali and Lewis acids above 100°C	
<b>Hazardous Decomposition or Byproducts:</b> Toxic HF and COF <sub>2</sub> from thermal decomposition in air.	
<b>Hazardous Polymerization:</b> May Occur - Will Not Occur <u>XX</u>	<b>Conditions to avoid:</b> Avoid heating above 250°C.

## Section VI - Health Hazard Data

<b>Route(s) of Entry:</b> N/A	<b>Inhalation:</b> Slightly toxic by inhalation.(4 hr. LC50 1000-5000 ppm: 8-40 mg/l	<b>Skin:</b> Very low toxicity by contact. (LD50>10,000 mg/kg)	<b>Ingestion:</b> Very low toxicity by ingestion. (oral LD50>5000 mg/kg)
<b>Health Hazards (Acute and Chronic)</b> None			
<b>Carcinogenicity:</b> none			
<b>NTP?</b> no	<b>IARC Monographs?</b> no	<b>OSHA Regulated?</b> no	
<b>Signs and Symptoms of Exposure:</b> Mild irritant to the skin upon prolonged exposure for some individuals. Decomposition products formed at high temperatures may cause "polymer fever."			
<b>Medical Conditions Generally Aggravated by Exposure:</b> none known			
<b>Emergency and First Aid Procedures:</b> See above.			

## Section VII - Precautions for Safe Handling and Use

<b>Steps to Be Taken in Case Material is Released or Spilled:</b> Use absorbent material to collect and contain for salvage and disposal.
<b>Waste Disposal Method:</b> Dispose of in accordance with Federal, state, and local regulations.
<b>Precautions to Be taken in Handling and Storing:</b> Do not store near flammables or explosive materials.
<b>Other Precautions:</b> Toxic vapors may be evolved above 250°C. Provide adequate ventilation if product is used above this temperature.

## Section VIII - Control Measures

<b>Respiratory Protection (Specify Type):</b> Not required under normal conditions.
<b>Ventilation:</b> Recommended <b>Local Exhaust:</b> Not required. <b>Mechanical (General):</b> recommended <b>Special:</b> N/A <b>Other:</b> N/A
<b>Protective Gloves:</b> Plastic disposable recommended <b>Eye Protection:</b> Safety glasses recommended
<b>Other Protective Clothing or Equipment:</b> Plastic disposable apron or coveralls recommended
<b>Work/Hygienic Practices:</b> Do not contaminate food or smoking materials. Wash hands after exposure.