



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

Lithium Grease

Hydrophobic, Corrosion Inhibiting Lubricant

8461 Technical Data Sheet

8461

Description

The 8461 *Lithium Grease* is a multi-purpose lubricant that provides long superior lubrication and protection against corrosion. As a lubricant, it reduces metal-to-metal friction and wear while retaining its consistency over a wide temperature range. As a corrosion inhibitor, it prevents water and external contaminants from oxidizing metals.

Benefits and Features

- **Corrosion Inhibitor**
- **Heat resistant**
- **Easy to use and apply: Smooth buttery cream texture**
- **Long lasting**

ENVIRONMENT
RoHS Compliant
Zero-VOC

Service Range

<i>Properties</i>	<i>Value</i>
Service Temperature	-40 °C to +180 °C [-40 °F to +356 °F]
Shelf Life	5 years ^{a)}
Storage Temperature Limits	25 °C ± 5 °C [77 °F ± 9 °F]

a) Reported shelf life assumes room temperature storage and unopened container.

Lithium Grease Properties

<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Base Material Filler		Mineral Oils Lithium Soap
Electrical Class Color Viscosity Specific Gravity Melting Point Autoignition Temperature Boiling Point Odor Non-Corrosive Aqueous Solubility	Visual	Insulator Off white Cream, semi-solid 0.90 185 °C [365 °F] 210 °C [410 °F] 371 °C [700 °F] none Excellent Insoluble

Principal Components

Name	CAS Number
Lithium Soap	7620-77-1
Mineral Oils	64741-88-4
Zinc Oxide	1314-13-2

Compatibility

Chemical—It is compatible with a wide variety of metal, rubber, and plastic substances.

Storage

Store between 0 °C and 35 °C [23°F and 95 °F] in dry area.

Health, Safety, and Environmental Awareness

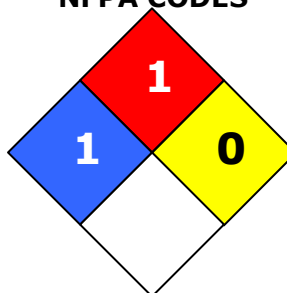
Please see the 8461 **Material Safety Data Sheet** (MSDS) for greater detail on transportation, storage, handling and other security guidelines.

Environmental Impact: The volatile organic content is 0.0% by WHMIS and European standards.

HMIS RATING

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Health and Safety: The 8461 may cause a mild skin or eye irritation.

Application Instructions

The performance of the 8461 Lithium Grease depends on surface preparation. Improperly prepared contact surfaces can degrade the oxidation protection, dielectric properties, and lubrication characteristics by trapping contaminants between the surface and the grease. The thickness and coverage should be adjusted to meet your needs.

Prerequisites

- Clean and dry the surface of the substrate to remove other oils and greases, as well as dust, water, solvents, or any other contaminants.
- (Optional) Wear gloves to avoid contaminating the surface and to avoid possible skin irritation.

Equipment

- Lint free cloth (for cleaning contact and for wiping excess residue)
- Spatula or stick application tools (sized appropriately for your application).
- Isopropyl alcohol or other residue-free organic solvents (for cleaning).



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To apply the grease

1. Wipe the contact with a lint-free cloth
2. Clean the contacts with isopropyl alcohol cleaner.
3. Once dry, apply the paste with the application tool to the contact, ensuring adequate coverage and desired thickness.

Packaging and Supporting Products

<i>Cat. No.</i>	<i>Form</i>	<i>Net Volume</i>	<i>Net Weight</i>	<i>Shipping Weight</i>
8461-85ML	Grease tube	85 mL 2.9 fl oz	85 g 3 oz	0.9 kg ^{a)} 2.0 lb
8461-1P	Grease tub	487 mL 1.0 pint	487 g 16 oz	0.9 kg 2.0 lb

a) pack of 6 cans

Supporting Products

- 824 Isopropyl Alcohol

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Phone: 1-800-340-0772 Ext. 130 (Canada, Mexico & USA)

1-905-331-1396 Ext. 130 (International)

Fax: 1-905-331-2862 or 1-800-340-0773

Mailing address: **Manufacturing & Support**
1210 Corporate Drive
Burlington, Ontario, Canada
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Head Office
9347-193rd Street
Surrey, British Columbia, Canada
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Warranty

M.G. Chemicals Ltd. warranties this product for 12 months from the date of purchase by the end user. M.G. Chemicals Ltd. makes no claims as to shelf life of this product for the warranty. The liability of M.G. Chemicals Ltd. whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

Disclaimer

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.