

## PRODUCT DATA SHEET & MSDS



### DESCRIPTION:

A General purpose lithium based grease using a lithium thickener with carefully selected additives that have exceptional load carrying capabilities as well as fortified with Anti-Oxidant and Anti-Rust. It is formulated to resist high shock loads and it has superb lubricating properties that allows extended cycling times and cost reduction.

### PRODUCT FEATURES:

- Excellent adherence to metal surfaces.
- Superb lubricating properties.
- Outstanding pumpability.
- Exceptional rust and oxidation characteristics.
- Proven extreme pressure additives ensure maximum protection against shock loads reducing metal to metal contact and hence minimal wear of moving parts.
- Reduces maintenance costs.
- High performance multipurpose grease for automotive and heavy industrial applications replacing the need to stock a variety of conventional greases.

### APPLICATIONS:

Automotive chassis and wheel bearing applications. Multipurpose grease for heavy and Light industrial applications which is subjected to intermittent high pressures. Slow moving bearings where shock loading and water washout are experienced. General plant lubrication. Plain and rolling element bearings.

### TECHNICAL DATA:

PROPERTY	UNITS	General / Wheel Bearing Grease	ASTM TEST
Thickener	-	Lithium	-
NLGI Number	-	2	-
Worked Penetration at 25°C	Tenths of a mm	265 - 295	D217
Dropping Point (min)	°C	180	D566
Base Oil Viscosity 40 °C	cSt	100	D445
Temperature Range	°C	-10 to 120	-
Anti-Rust Characteristics	PASS / FAIL	PASS	D1743
Colour	-	Light Brown / Beige	Visual

**Revision Date: November 2017 (Revision 1)**

all reasonable care has been taken to ensure that the information contained in this publication is accurate at the date of printing. It should be noted however that the information may be effected by changes subsequent to the date of printing in the blend formulation or methods of application of any of the products referred to or in the requirements of any specification approval relating to any such products.

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### 1. PRODUCT IDENTIFICATION

Product	:	General Purpose / Wheel Bearing Grease
Company Identification	:	GPG 2 – LEP
Substance / Preparation	:	Preparation
Product Use	:	Lubricating grease for plain and rolling element bearings in automotive and industrial applications.

### 2. COMPOSITION

Chemical Composition	:	Mineral base oils, lithium soap and additives
Hazardous Components	:	None at sufficient concentrations to require hazardous classification.

### 3. HAZARDS IDENTIFICATION

Hazards	:	This material is not considered to be hazardous, but should be handled in accordance with good industrial hygiene and safety practices.
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### 4. FIRST AID MEASURES

Eye Contact	:	Flush eyes thoroughly with water. Obtain medical advice if any irritation occurs.
Skin Contact	:	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin thoroughly. If irritation persists obtain medical attention.
Ingestion	:	Not expected to be a problem. If large quantities of this product are ingested obtain medical advice. DO NOT induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation	:	Avoid excessive inhalation of mists, fumes or vapour. This causes irritation to the nose, throat, and coughing. Remove person from exposure. If symptoms persist obtain medical advice.

### 5. FIRE FIGHTING MEASURES

Extinguishing media	:	In case of fire use water sprays, fog or standard foam is recommended. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas /objects. Avoid spraying directly into storage containers because of the danger of boil-over. Move container away from fire area if you can do it without risk.
Special hazards	:	Fires in confined areas should be dealt with by trained personnel wearing approved breathing apparatus. Toxic fumes may be evolved on burning or exposure to heat.
Protective clothing	:	Use suitable protective breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Any spillages should be regarded as a potential fire risk. In the event of spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surface slippery. Clean up spilled material immediately. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
Environmental precautions	:	Do not wash product into drainage systems, protect drains from potential spills to minimize contamination. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover from the surface. Protect environmentally sensitive areas and water supplies. Minimize contact of spilled material with soils to prevent runoff to surface waterways.
Small Spills	:	For small spills clean up the material immediately. Contain and recover spilled material using sand or other suitable inert absorbent material.
Large Spills	:	Recovery of large spills should be affected by specialist personnel.

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### 7. HANDLING AND STORAGE

- Handling precautions : Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths in pockets. Take necessary precautions against accidental spillage into soil and water. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
- Storage precautions : Store under cover away from heat and sources of ignition.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Limits : There is no appropriate occupational exposure limit to this material.
- Engineering controls : The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.
- Personal Protective Equipment  
Respiratory system : Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled. The use of respiratory equipment must be strictly in accordance with any statutory requirements governing its selection and use.
- Hands : Use chemical resistant, impervious gloves.
- Eyes : Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity on material and conditions of use.
- Skin : Disposable outer garments where there is the potential for contact with the material.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 10. STABILITY AND REACTIVITY

- Conditions to avoid : Sources of ignition. Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gasses, including carbon monoxide.
- Incompatible Materials : Avoid contact with strong oxidizing agents
- Stability : Stable at ambient temperatures. Hazardous polymerization reactions will not occur.

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### 11. TOXICOLOGICAL INFORMATION

- Skin contact : Unlikely to cause harm to the skin on brief or occasional contact.
- Eye contact : Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
- Ingestion : Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.
- Inhalation : At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May cause irritation to eyes, nose and throat due to vapour, mists or fumes. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occur.

### 12. ECOLOGICAL INFORMATION

- Aquatic toxicity : Spills may form a film on water surfaces causing physical damage to organisms; oxygen transfer could also be impaired.
- Biodegradability : This product is inherently biodegradable.
- Bio-accumulation : There is no evidence to suggest bio-accumulation will occur.
- Mobility : Spillages may penetrate the soil causing ground and water contamination.

### 13. DISPOSAL CONSIDERATIONS

- Disposal Methods : Where possible, arrange for the product to be recycled. Dispose via an authorised person / licensed waste disposal conductor in accordance with local regulations.

### 14. TRANSPORT INFORMATION

- Road Transport : Not classified as hazardous for transport

### 15. REGULATORY INFORMATION

- EEC hazard classification : Not classified

### 16. OTHER INFORMATION

- : This data sheet and health, safety and environmental information it contains are considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside **Blue Chip Lubricants (Pty) Ltd**. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practice any patented invention without a valid license. **Blue Chip Lubricants (Pty) Ltd** shall not be held responsible for any damage or injury resulting from abnormal use of material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

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