GP SUPER X / GP SUPER X3

EXTREME PRESSURE LITHIUM COMPLEX GREASE

PRODUCT DATA SHEET & MSDS



DESCRIPTION

Premium lithium complex grease fortified with carefully selected antiwear and extreme pressure additives to provide exceptional load carrying capabilities. Formulated to resist high pressures and shock load conditions. Excellent oxidation properties result in extended grease intervals and cost reduction. The complex technology allows for higher operating temperatures than normal general purpose greases.

PRODUCT FEATURES

- Excellent adherence to metal surfaces.
- Proven wear inhibitors prolong equipment life.
- Good pumpability allows for grease pump application.
- Improved oxidation resistance ensures long grease life.
- Outstanding work stability maintains grease consistency.
- Suitable for use at higher temperatures than conventional greases.
- Effective corrosion inhibitors protect against rust.

APPLICATIONS

High performance grease suitable for a wide range of automotive, construction, agricultural, mining and industrial applications. Particularly suitable for heavy transport wheel bearings in severe service. Recommended for heavily loaded bearings where shock loading and water washout are problematic. Versatile product reducing the number of different greases to be stocked and thereby eliminating product misapplication.

TYPICAL PROPERTIES

PROPERTY	UNITS	GP SUPER X	GP SUPER X3	ASTM TEST
Thickener		Lithium Complex	Lithium Complex	
NLGI Grade		2	3	
Penetration; Worked @ 25°C	Tenths of a mm	265 – 295	220 - 250	D217
Dropping Point (min)	°C	250	250	D566
Base Oil Viscosity @ 40 °C	cSt	500	500	D445
Temperature Range	°C	-20 to 180*	-15 to 180*	
Corrosion Prevention		PASS	PASS	D1743
Colour		Red	Red	Visual

*Maximum temperature for short term exposure 220°C

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 affected 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	:	Heavy Duty Multipurpose Lithium Complex Grease
Company Identification	:	GP SUPER X / GP SUPER X3
Product Use	:	Lubricating grease for high temperature applications.

2. COMPOSITION

Chemical Composition	:	Mineral base oils, lithium complex thickener 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.

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 of material and conditions of use.
Skin	:	Disposable outer garments where there is the potential for contact with the material.

9. PHYSICAL PROPERTIES

PROPERTY	UNITS	GP SUPER X	GP SUPER X3	ASTM TEST
Colour		Red	Red	Visual
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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.



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 diarrhoea.
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

DISCLAIMER

The information provided in this data sheet and the health, safety and environmental information it contains, is correct to the best of our knowledge at the date of publication. However, neither Blue Chip Lubricants (Pty) Ltd nor any of its affiliates, accept any liability whatsoever for the accuracy or completeness of the information contained herein. Since this information may be applied under conditions beyond our control, we do not accept any responsibility for the results of its use. Final determination of suitability of any material is the sole responsibility of the user.