OG 430

OPEN GEAR LUBRICANT

PRODUCT DATA SHEET & MSDS



DESCRIPTION

Blue Chip OG 430 is a soft yet tacky, water resistant open gear lubricant with excellent adhesive properties. It is formulated with an inorganic clay thickener and a proven proprietary additive package. Free of any heavy metals, chlorine, solvents or bitumen. Will not harden in service or build up on gear teeth. OG 430 is suitable for automatic lubricating systems and will not separate or clog feeder lines.

PRODUCT FEATURES

- Effective EP additives protect against wear under high load conditions and shock loading.
- Solid film lubricants prevent metal to metal contact even when the grease is displaced.
- Proven tackiness agents ensure excellent adherence to metal surfaces.
- Good pumpability permits uniform distribution on gear teeth.
- Formulated to resist water wash-off.
- Effective rust and corrosion inhibitors protect metal surfaces in wet operating conditions.
- Excellent oxidation resistance ensures enhanced grease life at elevated temperatures.

APPLICATION

OG 430 is designed for the lubrication of open gears on mills and kilns operating at elevated temperatures. Suitable for central lubricating systems on opencast mining shovels and draglines. Recommended for ring gears, booms and dipper sticks and circle rollers. Suitable for use on wire ropes, chains, sprockets, pivots, linkages, gear racks and sliding surfaces. OG 430 is particularly suitable for high temperature applications and where water washout is experienced.

WARNING: OG 430 grease must not be mixed with other open gear lubricants and greases.

TYPICAL PROPERTIES

PROPERTY	UNITS	TYPICAL	TEST METHOD
Colour		Dark Grey/Black	
Thickener		Bentonite Clay	
NLGI Number		00	
Worked Penetration at 25°C	Tenths of a mm	400 - 430	ASTM D217
Timken OK Load	kg	27	ASTM D2509
Dropping Point	°C	>250	ASTM D566
Base Oils Viscosity at 40 °C	cSt	976	ASTM D445
Base Oils Viscosity at 100 °C	cSt	42,9	ASTM D445
Oil Separation	% m/m	2.4	ASTM D1742
Temperature Range	°C	-10 to +220	
Corrosion Prevention	Pass/Fail	Pass	ASTM D1743
Storage Stability	Months	12	SABS 1014

All reasonable care has been taken to ensure that the information contained in this Product Data Sheet is accurate at the date of issue. It should be noted, however, that the information may be effected by changes, subsequent to the date of issue, in the blend formulation or the requirements of any third party specification relating to this product or the methods of application. Final determination of suitability of any material is the sole responsibility of the user.

Revision Date – 26 February 2025 (First Revision)

licensed manufacturer

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1. PRODUCT IDENTIFICATION

Product	:	Open Gear and Multipurpose Bentonite Grease.
Company Identification	:	OG 430
Product Use	:	Lubricating grease for a wide variety of heavy duty applications.

2. COMPOSITION

Chemical Composition	:	Mineral base oil, bentonite clay thickener, functional additives and solid lubricants.
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.



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. TYPICAL PROPERTIES

PROPERTY	UNITS	TYPICAL	TEST METHOD
Colour		Black	
Thickener		Bentonite Clay	
NLGI Number		00	
Worked Penetration at 25ºC	Tenths of a mm	400 - 430	ASTM D217
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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 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.