



PRODUCT SPECIFICATION DATA SHEET



BOSS MULTI-GRADE PUMP JACK 150

Customer Benefits:

BOSS Lubricants Multi-Grade Pump Jack 150 is formulated to offer all season capability. Its low temperature properties allow excellent low temperature start-up. This product is designed to operate in a temperature range from -30°C to +75°C. BOSS Lubricants Multi-Grade Pump Jack 150 is very appealing to customers utilizing this product on indoor and outdoor applications. This product can be used in such applications as out door conveyor systems, pump jack gear boxes, and overhead cranes.

Properties:

Grade	150
<u>Kinematic Viscosity(cSt)</u>	
Viscosity @ 100°C	19.14
Viscosity @ 40°C	150.0
Viscosity Index	142
Density @ 15°C	0.8602 Kg/L
Pour Point (°C)	-30°C
Flash Point (°C)	217°C

Performance Benefits:

Excellent Load Carrying Capability – The EP additives in this gear oil are activated by high temperatures caused by shock loading, and act as a boundary lubricant between points on the gears.

All Season Gear Protection – BOSS Multi-Grade Pump Jack 150 is specially designed to handle a wide range of differing temperatures thus reducing service intervals and costs associated with this.

Improved Rust and Corrosion – Our product utilizes anti-foam additives to reduce oil “frothing” caused by the gears during operation, which maximizes the total gear protection.

Increased Water Separation Capability – Quick water separation prevents degradation of the gears.



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MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

BOSS LUBRICANTS
112, 6303 – 30 Street S.E.
Calgary, AB
T2C 1R4

Transportation Emergency 1-800-844-9457
Technical Information: 403-279-2223
MSDS Information: 403-279-2223

PRODUCT NAME: MULTI-GRADE PUMP JACK 150
COMMON NAME: MULTI-GRADE PUMP JACK 150

CHEMICAL NAME: Lubricating oil

CHEMICAL FORMULA: Mixture
CHEMICAL FAMILY: GEAR OIL

This MSDS was prepared by the Toxicology and Product Stewardship Section of BOSS LUBRICANTS

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

See Section 8 for Occupational Exposure Guidelines.

SECTION 3: HAZARDS IDENTIFICATION

Physical Description: Liquid Lightly Coloured Hydrocarbon Odour

Routes Of Exposure: Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.

Hazards:

This product is not expected to be irritating and has a low level of toxicity under normal use.

Inhalation of oil mist or vapours may cause irritation of the upper respiratory tract.

For further information on health effects, see section 11.

Section 4: First Aid

Eye Contact :	Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation occurs and persists, obtain medical attention.
Skin:	Wipe excess from skin. Wash contaminated skin with mild soap and water for 15 minutes. If irritation occurs and persists, obtain medical attention. If material is injected under skin, get medical attention promptly to prevent serious damage; do not wait for symptoms to develop.



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First Aid cont'd

- Ingestion:** Not normally required; obtain medical attention if large amounts have been ingested. Do not induce vomiting. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into the lungs.
- Inhalation:** Remove victim from further exposure. Additional first aid treatment is not ordinarily required.

Notes to Physician: In general, lubricating oils have low oral toxicity. High pressure injection under the skin may have serious consequences and may require urgent treatment

SECTION 5: FIRE FIGHTING MEASURES

- Extinguishing Media:** Dry Chemical
Carbon dioxide
Foam
Water Fog
- Firefighting Instructions:** Material will not burn unless preheated. Product will float and can be reignited on surface of water. Do not use a direct stream of water as it may spread fire. Do not use water except as a fog. Use water to cool fire exposed containers. Water may be used to flush spills away from exposures. Do not enter confined fire space without adequate protective clothing and an approved positive pressure self-contained breathing apparatus.
- Hazardous Combustion:** Carbon monoxide, carbon monoxide and dense smoke are produced on combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Isolate hazard area and restrict access. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Spilled material is slippery. Dike and contain land spills; contain water spills by booming. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Flush area with water to remove residue. Dispose of recovered material as noted under Disposal Considerations. Notify appropriate environmental agency(ies).

SECTION 7: HANDLING AND STORAGE

- Handling:** Avoid excessive heat, formation of oil mist, breathing of vapors and mist of hot oil and prolonged or repeated contact with skin. Wash with soap and water prior to eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing prior to reuse. Use good personal hygiene.
- Storage:** Store in a cool dry, well ventilated area, away from heat and ignition sources.

SECTION 8: EXPOSURE CONTROL – PERSONAL PROTECTION

The following information, while appropriate for this product, is general in nature. The selection of personal protective equipment will vary depending on the conditions of use.

OCCUPATIONAL EXPOSURE LIMITS (Current ACGIH TLV/TWA unless otherwise noted):

Oil mist (mineral): 5mg/m³ (STEL: 10mg/m³)

- Mechanical Ventilation:** Not normally required. Local ventilation is recommended if oil mist is present or if exposure limit is exceeded. Make up air should always be supplied to balance air exhausted (either generally or locally).



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Exposure control cont'd

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection:	No special eye protection is routinely necessary. Wear safety glasses as appropriate.
Skin Protection:	Not normally needed. Chemically-resistant gloves should be worn for frequent or prolonged contact with this product..
Respiratory	Not normally required under intended conditions of use. If airborne concentration is high (e.g. when product is heated), use a NIOSH-approved chemical cartridge respirator with organic vapour cartridges in combination with a P95 particulate filter.

SECTION 9: PHYSICAL DATA

Physical State:	Liquid	Odour:	Hydrocarbon Odour
Appearance:	Lightly coloured	Odour Threshold:	Not available
Pour Point, °C :	Pour Point < -30°C	Boiling Point:	>315 °C
Vapour Pressure:	<0.1 mm Hg @20°C	Vapour Density (air = 1):	Not available
(absolute):			
Density:	8602/g @ 15°C	Flash Point, °C:	Cleveland Open Cup > 217 °C
Specific Gravity		Lower Explosion Limit:	Not available
(water = 1):			
pH:	Not applicable	Upper Explosion Limit:	Not available
Viscosity:	140 – 155 cSt @ 40°C	Autolgnition Temperature, °C:	Not available
Evaporation Rate:	Not available	Partition Coefficient (Kow):	Not available
(n-BuAc = 1):			
Water Solubility:	Insoluble	Molecular Weight:	
Other Solvents:	Hydrocarbon Solvents	Formula:	

SECTION 10: STABILITY AND REACTIVITY

Chemically Stable:	Yes	Hazardous Polymerization:	No
Sensitive to Mechanical Impact:	No	Sensitive to Static Discharge:	No
Incompatible Materials:	Avoid strong oxidizing agents.		
Conditions Of reactivity:	Avoid excessive heat, formation of vapours or mists.		

SECTION 11: TOXICOLOGY INFORMATION

Routes of Exposure:	Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.
Irritancy:	This product is not a primary skin irritant after exposure of short duration, is not a skin sensitizer and is not irritating to the eyes.
Acute Toxicity:	This product is not expected to be irritating and has a low level of toxicity under normal use.
Chronic Effects:	Long term intensive exposure to oil mist may cause benign lung fibrosis. Prolonged or repeated Contact may cause various forms of dermatitis including folliculitis and oil acne.

SECTION 12: ECOLOGICAL INFORMATION

Environmental	Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, or streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.
Biodegradability:	Not readily biodegradable.



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SECTION 13: DISPOSAL CONSIDERATION

Waste management priorities (depending on volumes and concentration of waste) are: 1. recycle (reprocess). 2. energy recovery (cement kilns, thermal power generation), 3. incineration, 4. disposal at a licensed waste disposal facility. Do not attempt to combust waste on-site.

SECTION 14: TRANSPORTATION

Canadian Road and rail Shipping Classification:

This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE

Other Regulatory Status: Provincial criteria are likely and should be requested when notifying provincial authorities
No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease.

Date Prepared: March 5, 2013

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