

### Material Safety Data Sheet:

Engol Cutter Bar 150

### **1. Product and Company Identification**

Product Name : Product Use: Supplier:	Engol Cutter Bar 150 Agricultural Lubricant Engol Group (Pty) Ltd 4 Silicon Road, Pinetown, 4147
Health Emergency Telephone:	10111
Contact Information:	info@engolgroup.com
Engol Website :	http://www.engolgroup.com

### 2. Hazards Identification

Emergency response data:	Dark Amber Liquid. DOT ERG No Not applicable.
GHS Classification: Health	
Acute inhalation toxicity warning: Acute oral toxicity warning:	May be harmful if inhaled. Hazard category 4. May be harmful if swallowed. Hazard category 5.
Skin irritation warning: Eye irritation warning: Environmental	Pratically non-irritating. Hazard category 3. Mild irritant. Hazard category 2B.
Aquatic toxicity warning:	Hazard category 3. Toxic to fish, aquatic life and wildlife
Physical	withite

## Flammability warning: **Hazard Statement**

Combustible liquid. May cause mild eye irritation. May be harmful if swallowed or inhaled.

Precautionary Statements	
Response	
IN CASE OF FIRE:	Use dry chemical, foam or carbon dioxide for extinction.
IF IN EYES:	Rinse cautiously with water for several minutes.
IF SWALLOWED:	Seek medical attention if you feel unwell.
IF INHALED:	Remove person to fresh air and keep up at a resting position for
	breathing.
Disposal	-

Combustible liquid. This product is non-flammable.

#### Disposal

Do not disrcharge into lakes, streams, ponds and ground water supply. See section 11 for further health effects/toxicological data.

### 3. Composition / information on ingredients

Substance: Preparation Description: Additional information:

Not Applicable. Highly refined mineral oils and additives. The highly refined mineral of containers <3% (w/w) DMSO-extract, according to IPA346.



### 4. First Aid Measures

General Information:	Not expected to be a health hazard when used under normal conditions.
Inhalation:	Not expected to be a problem. However, if respiratory irritation occurs due to excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.
Skin Contact:	Remove contaminated clothing. Dry wipe exposed skin and cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse.
Eye Contact:	Flush thoroughly with water. If irritation occurs consult a doctor.
Ingestion:	Not expected to be a problem. However if discomfort occurs seek medical attention. Do not induce vomiting.
Self-protection of the First Aider:	When administrating first aid, ensure that the appropriate personal protective equipment are worn, according to the incident, injury and surroundings.
Most important symptoms and	Oil acne/folliculitis signs and symptoms may include formation of
effects, both acute and delayed:	black pustule and spots on the skin of exposed area.
Indication of any immedate: medical notes to doctor/physican	Treat symptomatically.

## 5. Fire-Fighting Measures

#### Clear fire area of all non-emergency personnel.

Extinguishing Media:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be Used for small fires only.
Special firefighting procedure:	Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or Dilution from entering streams, municipal sewers, or drinking water supply.
Special protective equipment: for firefighters	Proper protective equipment including breathing apparatus must be worn whenapproaching a fire in a confined space.
Unusual fire and explosive: Hazard	None
Products of decomposition:	Fumes, carbon monoxide, sulphur dioxide, aldehydes and other decomposition products, In the case of incomplete combustion.
Flash Point:	> 220°C (ASTM D92)
Upper Explosion Limit (UEL):	7.0% (V)
Lower Explosion Limit (LEL): NFPA Hazard ID:	0.9% (V) Health: 0 ; Flammability: 1 ; Reactivity: 0
Advice for firefighters:	Proper protective equipment including chemical resistant gloves are to be worn; chemical Resistant suit is indicated if excessive contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant standards.

### 6. Accident Release Measures

Personal precautions:See Section 8.Procedure if material is released:Report spills/releases as required to appropriate authorities.or spilled



Methods for cleaning up and: containment Environmental precautions:	LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimise the effects on ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent or remove mechanically into containers. If necessary, dispose of absorbent residues as directed in Section 13. WATER SPILL: Notify port and relevant authorities. Confine with booms if skimming equipment is available to recover the spill for later recycling or disposal. Warn other ships in the vicinity. If allowed by regulatory authorities the use of suitable dispersants should be considered where recom mended in local oil spill procedures. Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the Relevant authorities if contaminations have occurred.
Additional advice:	Local authorities should be advised if significant spillages cannot be contained.
7. Handling & Storage	
General precautions:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapours and/or mists. When handling product in drums, safety footwear should be worn & proper handling equipment should be used.
Storage:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable container. Storage temperature: 0 – 50°C / 32 – 122° F. Do not store near heat sources, flames, sparks combustible material or strong oxidising agents.
Product transfer:	This material has the potential to be a static accumulator. Proper grounding and bonding procedure should be used during bulk transfer operations.
Conditions for safe storage: including any incompatibilities	Store at ambient temperature.
Recommended materials:	Use mild steel or high density polyethylene for containers or contain er linings.
Unsuitable materials:	PVC
Specific end use(s):	Not applicable.
Additional information:	Polyethylene containers should not be exposed to high temperatures

### 8. Exposure Control / Personal Protection

Occupational Exposure Limits (OELs)

	Components	CAS-No	Source	TWA	Value	Notation
LTEL:		Long	•	e Limits - Tim	e Weight Avera	ge (TWA) over 8
STEL:			Term Exposu	re Limits - Tir	ne Weight Avera	age (TWA) over 15
Note:		Limit	s Shown for g	uidance only.	Follow applicab	le regulations.

because of possible risk of distortion.



#### Personal Protection Equipment (PPE):

Engineering controls:	If mists are generated, use ventilation, local exhaust or enclosures to control below exposure limits.
Respiratory protection:	Approved respiratory equipment must be used when mist concentra- tions exceed the recommended exposure limits.
Eye protection:	If splash with liquid is possible, chemical type goggles should be worn.
Skin and body protection:	No special equipment required. However, if frequent splashing or liquid contact is likely to occur, wear oil impervious gloves and clothing. Good personal hygiene practices should always be followed.

## 9. Physical and Chemical Properties

Liquid at room temperature. Dark Amber Slight hydrocarbon Negligible No data available. > 316°C 7.0% (V) 0.9% (V) > 0.1 hPa 110 mm2/s@ 40°C (ASTM D-445)
110 mm2/s@ 40°C (ASTM D-445) 4.2mm2/s @ 100°C (ASTM D-445)

Engol Cutter Bar		
ISO VG	150	460
Viscosity, cSt @ 40°C	120	460
Viscosity, cSt @ 100°C	16.5	32
Flash Point °C	226	230
Pour Point °C	-9	-9
Density @20°C, kg/l	0.8674	0.889

## 10. Stability & Reactivity

Reactivity:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability:	No hazardous reaction is expected when handled and stored accord
	ing to provisions.
Possibility of hazardous reactions:	Reacts with strong oxidising agents.
Stability:	Stable
Conditions to avoid:	Extremes of temperature and direct sunlight.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition:	Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and
products	other decomposition products, in the case of incomplete
•	combustion.



### **11. Toxicological Information**

Basis for assessment:

Likely routes of exposure: Acute oral toxicity: Acute inhalation toxicity: Skin irritation:

Eye irritation: Respiratory irritation: Sensitisation: Aspiration hazard: Repeated dose toxicity: Mutagenicity: Carcinogenicity:

Reproductive and developmental: toxicity Specific target organ toxicity and: (STOT) - Single exposure

Specific target organ toxicity: (STOT) - Repeated exposure

Additional information:

Information given is based on data on the components and the toxicology of similar products. Unless otherwise indicated, the data presented is representative of the product as a whole, rather than for individual component(s). Skin and eye contact are the primary routes of exposure. Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat. Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit. Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Expected to be slightly irritating. Inhalation of vapours or mists may cause irritation. Not expected to be a skin sensitiser. Not considered to be an aspiration hazard. Not expected to be a hazard. Not considered to be a mutagenic hazard. Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other compounds are no known to be associated with carcinogenic effects. Not expected to be a hazard. Although an acute inhalation study was not performed with this product, a variety of mineral synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed results. No significant adverse effects were found in studies using repeated dermal applications of formulations to the skin of the laboratory animals for 13 weeks at doses significantly higher than those expect ed during normal industrial exposure. The animals were evaluated extensively for effects of exposure (haematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.). Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Used oil may contain harmful impurities that have accumulated

during use. The concentration Of such impurities that have accumulated and they may present risk to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. Continuous contact with used engine oils has caused skin cancer in animal tests.

### 12. Ecological Information

#### **Ecotoxicity Effects**

Toxicity to fish: Toxicity to aquatic organisms: Mobility:

Persistence / degradability:

(Salmon) LC/EC50: 8.1 mg/l at 96 hours. (Daphnia magna) LC/EC50: 9.4 mg/l at 8 hours. Liquid under most environmental conditions. Floats on water. If it enters soil, it will absorb into soil particles and not be mobile. Expected to be not readily biodegradable. Major Constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.



Bioaccumulation: Other adverse effects:	Contains components with the potential to bioaccumulate. Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.
13. Disposal Considerations	
Waste disposal: Contaminated packaging:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Empty containers retain residue (liquid and/or vapour) and can be
Contaminated packaging.	dangerous. Do not Pressurize, cut, weld, braze, solder etc. or expose such containers to heat, flames, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Local legislation:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.
14. Transport Information	
ADR:	This material is not classified as dangerous under ADR regulations.
RID:	This material is not classified as dangerous under RID regulations.
ADNR:	This material is not classified as dangerous under ADNR regulations
IMDG:	This material is not classified as dangerous under IMDG regulations

### 15. Regulatory Information

INJECTION INJURY WARNING:

IATA (Country variations may:

apply)

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

C Classification: Not classified as dangerous under EC criteria.			
EC Symbols:	No hazard symbol required.		
EC Risk Phrases:	Not classified.		
EC Safety Phrases:	NECS: All components listed or polymer exempt.		
EINECS:			
TSCA:			
16. Other Information			
R-Phrase(s):	Not classified.		
MSDS Version Number:	rsion Number: 1.0		
MSDS Effective Date 01.05.2017			

If product is injected into or under the skin, or into and part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency.

This material is not classified as dangerous under IMDG regulations

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### **Technical Data Sheet:**

Engol Cutter Bar Lubricant Range

### Specifications, Performance Standards & Recommendations:

ENGOL Cutter Bar Lubricant Range is recommended for the lubrication of cutting chains, cutter bars and drive gear on hand-held chain saws. The oil contains an exceptional tackiness additive pack to ensure that adequate lubricant adheres to the rubbing surfaces of this total loss system.

ENGOL Cutter Bar Lubricant Range is used entirely separate from the oil used in the 2-stroke engines and therefore must **NOT** be put into the engine. In a chain saw, the chain is driven by the engine and travels at high speeds around the backing plate called the cutterbar. Pegs attached to the chain fit into a groove in the cutter bar. The Chainsaw Lube is placed into a tank contained in the main body of the saw and an engine driven pump supplies oil into the groove to lubricate the pegs/groove interface.

### **Description:**

These are specialty lubricants containing superior additives to prevent fling-off, protect against rust, minimizes wear, prevents excessive heating and provides maximum lubrication protection under all operating conditions. It is compatible with all normal oil seal materials making ENGOL Cutter Bar Lubricant Range an outstanding all-round lubricant to use on high performance chainsaws.

### Key Advantages:

- Excellent lubrication.
- Super adhesive and cohesive properties.

### **Typical Physical Characteristics:**

ENGOL Cutter Bar			
ISO VG	150	460	
Viscosity, cSt @ 40°C	120	460	
Viscosity, cSt @ 100°C	16.5	32	
Viscosity Index	125	110	
Flash Point, °C	226	230	
Pour Point, °C	-9	-9	
Density @ 20°C	0.8674	0.889	

\*The values of the specifications shown in this table are typical values given as an indicator only.

### Pack Sizes:

- 500 ml ,1 Liter, 5 Liter and 20 Liter Plastic Bottles
- 208 Liter Steel Drums
- 1000 Liter IBC

### Health and Safety Information:

For recommendations on safe handling and use of this product, please refer to the Material Safety Data sheet available on **www.engolgroup.com** 

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