

# PRODUCT INFORMATION

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE OR PREPARATION AND COMPANY

MANUFACTURER/SUPPLIER	<b>SOLAR PETROLEUM LTD</b>
ADDRESS	<b>DITTON RD, WIDNES, CHESHIRE, WA8 0NN</b>
TEL	44-(0)151-424-2488
FAX	44-(0)151-495-1007
<b>EMERGENCY TEL</b>	07775902157
CODE/REVISION DATE	MILKMO 02 02.06.03

PRODUCT NAME	<b>MILKING MACHINE OIL V68,V100,V150</b>
TYPE	MINERAL LUBRICANT BASED ON SEVERELY SOLVENT REFINED PARAFFINIC BASE OIL WITH ANTIWEAR ADDITIVES
APPLICATION	VACUUM PUMP LUBRICATION

### 2. INFORMATION ON INGREDIENTS

GENERAL	CONTAINS	% CONC
HAZARDOUS INGREDIENTs	NONE	
RISK PHRASE	NONE	

### 3. HAZARDS IDENTIFICATION

INHALATION	OBSERVE THE OIL MIST LIMIT. IF THE LIQUID IS ASPIRATED, SERIOUS RESPIRATORY TRACT DISORDERS MAY OCCUR.
SKIN	MAY CAUSE DE-FATTING CAUSING SKIN CRACKING WHICH CAN BE A SOURCE OF SECONDARY INFECTIONS SUCH AS DERMATITIS. THIS RISK IS INCREASED WHERE THE PRODUCT HAS BEEN USED AND CONTAINS OTHER CONTAMINANTS
EYES	MAY CAUSE IRRITATION
INGESTION	MAY CAUSE NAUSEA AND LAXATIVE EFFECT

### 4. FIRST AID MEASURES

INHALATION	IN LIQUID FORM-SEEK MEDICAL ATTENTION IMMEDIATELY.
SKIN	WASH OFF WITH SOAP & WATER. USE SKIN MOISTURIZER/BARRIER CREAM
EYES	IRRIGATE WITH EYE WASH. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS
INGESTION	DO NOT INDUCE VOMITING INCASE OF ASPIRATION. IF VOMITING DOES OCCUR TURN TO RECOVERY POSITION, GIVE WATER TO DRINK & SEEK MEDICAL ATTENTION
PRESSURE INJECTION	ALWAYS OBTAIN IMMEDIATE MEDICAL ATTENTION EVEN THOUGH THE INJURY MAY APPEAR MINOR

### 5. FIRE FIGHTING MEASURES

REFE:\Product Data\AGRI\H&S\MILKMO 02.doc PAGE 1 OF 4 Printed 02/06/2003

**SOLAR PETROLEUM LTD, DITTON RD, WIDNES, CHESHIRE, U.K. WA8 0NN**

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Reg No 1753775

# PRODUCT INFORMATION

FLAMMABILITY	PRODUCT NOT CLASSIFIED AS FLAMMABLE BUT IS INHERENTLY COMBUSTIBLE
EXTINGUISHING MEDIA	USE FOAM, POWDER - DO NOT USE WATER JET
FLASH POINT (°C-pmcc)	>150
PRODUCTS OF COMBUSTION	FUMES COULD INCLUDE CO

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	SPILT PRODUCT REPRESENTS A SIGNIFICANT SLIP HAZARD. AVOID EXPOSURE OF THE PRODUCT TO SOURCES OF IGNITION.
ENVIRONMENTAL PRECAUTIONS	CONTAIN SPILLAGE. DO NOT ALLOW INTO WATER COURSES.
DECONTAMINATION PROCEDURES	REMOVE USING NON-FLAMMABLE ABSORBENT MEDIUM. LARGE VOLUMES SHOULD BE UPLIFTED BY TANKER.

## 7. STORAGE AND HANDLING

KEEP AWAY FROM IGNITION SOURCE UNDER COVER, BETWEEN 0°C & 25°C AVOID SOURCES OF IGNITION KEEP IN SEALED CONTAINERS, UNDER COVER. BUNDED STORAGE AREAS MAY BE REQUIRED. MAY SOFTEN CERTAIN RUBBERS. PROVIDE SUITABLE MECHANICAL EQUIPMENT FOR THE SAFE HANDLING OF DRUMS AND HEAVY PACKAGES.
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## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	USE IN WELL VENTILATED AREA IF PRODUCT MISTING OCCURS. LOCAL EXHAUST MAY BE NECESSARY.			
PERSONAL PROTECTION	USE BARRIER CREAM/GLOVE, EYE PROTECTION AND OVERALLS IF REGULARLY EXPOSED. CHANGE CONTAMINATED CLOTHES AND THOROUGHLY CLEAN BEFORE RE-USE			
OCCUPATIONAL EXPOSURE LIMITS	SUBSTANCE	8-HOUR TWA	STEL	SOURCE/OTHER INFORMATION
	MINERAL OIL (SEE OIL MIST, MINERAL)	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	EH40

## 9. PHYSICAL & CHEMICAL PROPERTIES-(THESE VALUES DO NOT CONSTITUTE A SPECIFICATION)

CODE/REVISION	02	SOL. in water	NO
APPEARANCE	COLOUR - AMBER	FLASH POINT C	> 150°C
SOLUBILITY IN ORGANICS	MOST	ODOUR	NEGLIGIBLE
EVAPORATION RATE	N/A	DENSITY Kg/L@15C	0.87-0.93
VAPOUR DENSITY gm/L@20C	N/A	VISCOSITY cSt@40C	SEE SPECIFIC DATA SHEET
BOILING POINT C	>200°C	FREEZE POINT C	< -5°C
AUTO IGNITION TEMP C	> 250°C	EXPLOSION LIMITS	N/A

# PRODUCT INFORMATION

## 10. STABILITY & REACTIVITY

STABILITY	STABLE UNDER NORMAL STORAGE CONDITIONS
CONDITIONS TO AVOID	TEMPERATURES ABOVE 130
MATERIALS TO AVOID	STRONG OXIDISING AGENTS
HAZARDOUS DECOMPOSITION. PRODUCTS	IRRITANT FUMES. DO NOT BREATHE PRODUCTS OF DECOMPOSITION

## 11. TOXICOLOGICAL INFORMATION

The following toxicology assessment is based on the knowledge of the individual components of the product. Estimated oral LD<sub>50</sub>, rat > 2kg/kg:

SKIN	UNLIKELY TO CAUSE HARM ON BRIEF OCCASIONAL CONTACT. WILL CAUSE DEFATTING IN REGULAR CONTACT.
EYES	MAY CAUSE TRANSIENT IRRITATION
INGESTION	MAY CAUSE NAUSEA, VOMITING AND DIARRHOEA
INHALATION	HAZARDOUS IN LIQUID FORM. MAY CAUSE PNEUMONIA.
CHRONIC	REPEATED AND PROLONGED SKIN CONTACT MAY LEAD TO SKIN DISORDERS
OTHER	PRODUCTS WHICH HAVE BECOME CONTAMINATED IN USE OR FROM EXTERNAL SOURCES MAY PRESENT MORE SERIOUS HEALTH EFFECTS

## 12. ECOLOGICAL INFORMATION

<b>GENERAL</b>	Mineral oils are readily, but not inherently biodegradable. Leaching and penetration of mineral oils through surface soils is generally regarded as resulting in long term persistence. Mineral oils are harmful to aquatic marine life.
BIODEGRADABILITY (CEC L-33-T-82)	<50%
CHEMICAL OXYGEN DEMAND (mgO <sub>2</sub> /l)	not determined

## 13. DISPOSAL CONSIDERATIONS

Place used and contaminated materials/packaging in suitable containers. Dispose of the controlled waste in accordance with Duty Of Care regulations (Environmental Protection Act 1990-Section 34(7)) using a licensed waste disposal company.
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## 14. TRANSPORT INFORMATION

CLASSIFICATION FOR TRANSPORT		NOT CLASSIFIED AS HAZARDOUS FOR TRANSPORT	
U.N. NUMBER	N/A	PACKAGING GROUP	N/A
SHIPPING NAME	N/A	MARINE POLLUTANT	NO
IMO CLASS	N/A	ICAO/IATA	N/A
ADR/RID	N/A		

## 15. REGULATORY INFORMATION

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HAZARD LABEL DATA	THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS FOR SUPPLY IN THE U.K.
LABEL RISK PHRASES	N/A
E.C.DIRECTIVES	Framework Waste Directive,91/156/EEC Waste Oil Directive, 87/101/EEC
STATUTORY INSTRUMENTS	The Health & Safety at Work Act 1974 The Consumer Protection Act 1987 Environmental Protection Act 1990 Control of Substances Hazardous to Health Regs 1988 Chemical(Hazard Information & Packaging) Regulations 1993 APPROVED CODES OF PRACTICE COSHH Regulations 1988 SI 1657 Control of Pollution Act 1974 Environmental Protection(Duty of Care) Regulations 1992 SI 2839 Highly Flammable Liquids and Petroleum Spirit Regulations 1972 SI 917 Carriage of Dangerous Goods by Road and Rail Regs 1994 SI669 EH40 Occupational Exposure Limits

## 16. OTHER INFORMATION

<p>The data and advice given apply when the product is sold for the stated application/s. The product is not sold as suitable for any other application. Use of the product for other applications may give rise to risks not stated here. Other uses should be referred to the document originator.</p> <p>If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that the person/s using or handling the product is provided with the information in this sheet.</p> <p>If you are an employer, it is your duty to tell your employees and others who may be effected of any of the hazards described in this sheet and of any precautions which should be taken.</p> <p>This M.S.D.S. has been prepared in accordance with the CHIP Regulations 1993. Transport, storage, use and disposal of the material should be in accordance with the following additional legislation/publications, where applicable:</p> <p>GUIDANCE NOTES</p> <p><i>OCCUPATIONAL SKIN DISEASES:HEALTH &amp; SAFETY PRECAUTIONS(EH 26)</i></p> <p><i>OCCUPATIONAL EXPOSURE LIMITS(EH40)</i></p> <p><i>THE CARCINOGENICITY OF MINERAL OILS (EH58)</i></p> <p><i>SKIN CANCER CAUSED BY OIL[MS(B)5]</i></p> <p><i>SAVE YOUR SKIN!-OCCUPATIONAL CONTACT DERMATITIS[MS(B)6]</i></p> <p><i>DERMATITIS-CAUTIONARY NOTICE[SHW 367]</i></p> <p><i>EFFECTS OF MINERAL OIL ON THE SKIN[SHW 397]</i></p> <p><i>METALWORKING FLUIDS - HEALTH PRECAUTIONS(EH62)</i></p> <p><i>CODE OF PRACTICE FOR METAL WORKING FLUIDS(INSTITUTE OF PETROLEUM)</i></p> <p><i>The publications above are available from HMSO &amp; HSE sources.</i></p>
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