

*ATTN: Mr. Pascal Bernard*

REFERENCE OIL RL208

ESSO PETROLEUM COMPANY LIMITED

PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES

DRAFT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT NAME: LUBE OIL BASESTOCK SAMPLES

PRODUCTS COVERED: Extracted basestocks including:  
ESSO SOLVENT NEUTRAL 60, 80, 90, 100, 130, 140, 145, 150, 175, 325, 500, 600, 650.  
ESSO SOLVENT BRIGHTSTOCK 2500. 100 SOLVENT.  
ESSO BASE LIGHT A (& SUPER EBLA). ESSO BASE MEDIUM B.  
INDUSTRIAL BASE OIL LIGHT  
Includes STANCO BASE equivalents of the above.

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ESSO PETROLEUM COMPANY LIMITED  
ESSO HOUSE  
ERMYN WAY  
LEATHERHEAD  
SURREY  
KT22 8UX, UK

MEDICAL EMERGENCY: TELEPHONE : 0372-223131

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2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT                      APPROXIMATE CONCENTRATION

None

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3. HAZARD IDENTIFICATION

This product consists of highly refined base oil. It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. However, in common with most mineral oils, prolonged and repeated skin contact may cause dermatitis. Handling precautions should be strictly observed.

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**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****4. FIRST AID****Inhalation**

At ambient/normal handling temperatures, inhalation of vapours is normally not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing is irregular or has stopped. Get prompt medical attention.

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**Skin Contact**

Wash thoroughly with plenty of water, using soap if available. Remove contaminated clothing. If irritation persists, get medical attention.

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**Eye Contact**

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

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**Ingestion**

If swallowed, DO NOT induce vomiting; keep at rest and call a physician.

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**5. FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA:**

Foam, dry chemical powder, carbon dioxide.

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**FIRE AND EXPLOSION HAZARDS:**

Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.

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**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****SPECIAL FIRE-FIGHTING PROCEDURES:**

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel. Should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

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**HAZARDOUS COMBUSTION PRODUCTS:**

Smoke and carbon monoxide in the event of incomplete combustion.

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**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** See Section 8.

**LAND SPILL:**

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contained spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

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**WATER SPILL:**

Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

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**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****7. HANDLING AND STORAGE**

Store the product in cool, well ventilated surroundings, well away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations regarding fire prevention with this class of product.

LOAD/UNLOAD TEMPERATURE deg. C : Ambient to 40

STORAGE TEMPERATURE deg. C : Ambient to 40

**SPECIAL PRECAUTIONS:**

Keep containers closed when not in use.  
Prevent small spills and leakages to avoid slip hazard.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMIT:**

An Occupational Exposure Standard of 5 mg/m<sup>3</sup>, 8-hour Time Weighted Average, for mineral oil mist is laid down in the HSE Guidance Note EH 40.

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**PERSONAL PROTECTION:**

In open systems where contact is likely, wear safety goggles, chemical resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required.

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**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****9. PHYSICAL & CHEMICAL PROPERTIES****APPEARANCE / ODOUR:**

Range from clear colourless liquids (low viscosity grades) to clear brown liquid (high viscosity grades). Mild petroleum odour

DENSITY, g/ml: Data not available

BOILING RANGE: Data not available

PHYSICAL PROPERTIES, typical:

Grade	VISCOSITY, mm <sup>2</sup> /s		FLASH Point	POUR Point
	@ 40°C	@ 100°C	(ASTM D92) in °C	(ASTM D97) in °C
60	10	2.5	164	-21
80	15.2		180	
90	18	3.8	190	-18
100	20.5		195	
130	25	4.7	210	-15
140	27		210	-15
145	28	5.0	220	-15
150	30	5.3	210	-12
IBOL	30	5.3	210	-9
EBLA	"	"	"	-9
S. EBLA	"	"	"	-15
175	33.5		210	-9
325	64	8.8	240	-9
EBMB	80	10	250	-9
500	97	11	260	-6
600	111	12	250	-9
650	120		250	
2500	485	31	300	-9

VAPOUR DENSITY AT 1 BAR (Air=1): Heavier than air

SOLUBILITY IN WATER, at 20°C: Negligible

pH: Not applicable

VAPOUR PRESSURE, at 20°C: Non-volatile

**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****10. STABILITY AND REACTIVITY**

STABILITY (Thermal Light, Etc): Stable

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**CONDITIONS TO AVOID:**

Keep away from heat sources, open flames and other sources of ignition.

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**INCOMPATIBLE MATERIALS:**

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

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**HAZARDOUS DECOMPOSITION PRODUCTS:**

Product does not decompose at ambient temperature.

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**11. TOXICOLOGICAL INFORMATION****EFFECTS OF OVER EXPOSURE:****INHALATION:**

Negligible hazard at ambient/normal handling temperatures.

Elevated temperatures or mechanical action may form vapours, mists, or fumes which may be irritating to eyes, nose, throat and lungs.

Avoid breathing vapours, mists or fumes.

**SKIN CONTACT:**

Low order of acute toxicity.

Prolonged or repeated contact may lead to mild skin irritation.

**EYE CONTACT:**

Slightly irritating, but does not injure eye tissue.

**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****INGESTION:**

Low order of acute/systemic toxicity.

**CHRONIC:**

Although there are no specific test data on this base oil, it would not be expected to exhibit carcinogenic potential based on what is known of the toxicity of similar base oils.

**TOXICITY DATA****ACUTE :**

No test data are available for the complete formulated product. The potential health hazards described were therefore derived from what is generally known of the toxicity of the base oils and the additives, taking into account the concentrations at which they are present. The general effects of mineral oils of this type are well known and are described in numerous publications including CONCAWE Report 5/87 "Health Aspects of Lubricants".

**CHRONIC:**

Although there are no specific test data on this base oil, it would not be expected to exhibit carcinogenic potential based on what is known of the toxicity of similar base oils.

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**12. ECOLOGICAL INFORMATION**

In the absence of specific environmental data for this product, this assessment is based on information for general hydrocarbon components found in lubricant mineral oils. Lubricant mineral oils, immediately following a release into the environment, will remain largely on the soil surface, and in water will remain largely on the water surface. Based on chemical/physical information from the literature for this product category, no harmful effects to terrestrial or aquatic habitats would be expected. This product is expected to be resistant to biodegradation and to persist in the environment. This product may contain additives for which no environmental data are available. Hence, the above assessment concerns the base oils only.

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**13. DISPOSAL CONSIDERATIONS**

Collect and dispose of waste product at an authorised disposal facility, in conformation with national and local regulations, and in accordance with EEC directives on the disposal of waste oil.

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**ESSO PETROLEUM COMPANY LIMITED****PRODUCT HEALTH & SAFETY DATA PRODUCT: LUBE OIL BASESTOCK SAMPLES****14. TRANSPORT INFORMATION**

## USUAL SHIPPING CONTAINERS:

Rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to 40

**15. REGULATORY INFORMATION**

## EEC REGULATED SUBSTANCES/PREPARATIONS CLASSIFICATION:

Not regulated

Refer to your national legislation implementing EEC directive 91/155/EEC

**16. OTHER INFORMATION**

## PRODUCT TYPE / USES:

Lubricating oil basestock sample

## SOURCE OF KEY DATA:

The recommendations presented in this Materials Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and recognised codes of good practice.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with other materials or in any process. Conditions of use of the material are under the control of the users; therefore, it is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.