

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron ENGINE STOP LEAK**

Other Names: **FESLB – 200 litre drum**
FESL20 – 20 litre container
FESL10 – 10 litre container
FESL – 325ml bottle

Recommended Use: Engine Stop Leak is scientifically blended to effectively and quickly help 'O' rings to regain tolerance and flexibility. Will also help reduce oil consumption and stop annoying oil leaks. When added to crankcase oil (a carefully formulated ash free synthetic seal conditioning agent designed to increase the efficiency of seal elastomers commonly used in automotive engines) will after a gradual take up, stop oil leaks. Conditions seal elastomers by replacing components, which have been removed by either the leaching action of solvent fractions in the oil and/or the effect of ageing and heat. With the seals increased flexibility and pliability allowing better conformity to shaft contours thus better wrap on the shaft and increased sealing.

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2. HAZARDS IDENTIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

Hazard Identification: T Toxic

Risk Phrase: R45 May cause cancer

Safety Phrase: S2 Keep out of the reach of children
S53 Avoid exposure – obtain special instructions before use
S45 In case of accident or if you feel unwell seek medical advice immediately (show label where possible)



3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Solvent Neutral Paraffinic Lube Oil	64742-86-5	50-90%
Heterocyclic ether (proprietary ingredient)		10-30%
Zinc alkyl dithiophosphate		< 1%

4. FIRST AID MEASURES:

Swallowed:	If swallowed DO NOT induce vomiting. Rinse mouth with water. Seek prompt medical attention. For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 03 4747 000 (Not after May 2005) or 0800 764 766; or a doctor (at once).
Eye:	If contact with the eye(s) occur, immediately hold the eye open and wash continuously for at least 15 minutes with fresh running water. Seek medical attention. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Seek medical advice.
Skin:	Remove contaminated clothing and wash affected area with soap and water. Do not rub hard. Rinse well and pat dry. If symptoms persist seek medical advice.
Inhaled:	Remove the source of contamination or move the victim to fresh air. Keep at rest until fully recovered.
First Aid Facilities:	Safety shower, mild soap and eye wash facilities.
Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Flammable Liquid	(Class 1)
Extinguishing Media:	In case of fire, use foam, carbon dioxide or dry agent.
Unusual Fire & Explosion Hazards:	Dried residues combustible. May release small quantities of organic degradation product.
Fire Fighting Precautions:	For fires in enclosed areas, fire fighters must use self-contained breathing apparatus (S.C.B.A.). May give off noxious and toxic fumes in a fire situation. Vapours are heavier than air and may travel considerable distances to a source of ignition and flash back may occur along vapour trail.
Hazchem Code:	Not applicable

DATE OF ISSUE: 16th March, 2009
DOC No: MSDS.24
ISSUE: G





6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures: Procedures in case of Breakage or Leakage:

Minor Spill:
Absorb spillages with suitable inert material.

Major Spill:
Inform authorities if a major spillage occurs. Evacuate all non-emergency personnel from area. Dyke area far ahead of liquid and recover. Prevent entry into drainage systems, rivers etc.

Methods and Materials for Containment and Clean Up:-
Minor Spill/Major Spill:
Absorb with an inert non-combustible material such as vermiculite or sand. Wear full protective clothing and goggles. Do not allow to enter public sewers and watercourses. If contamination of drainage system or watercourses is unavoidable, immediately inform appropriate authorities.

7. HANDLING AND STORAGE:

Precautions for Safe Handling: Avoid prolonged or repeated contact with skin. Use only in well ventilated area. Do not breathe vapour/fumes. Follow normal industrial/chemical hygiene practices. After contact with skin, wash immediately with plenty of soap and water.

Conditions for Safe Storage: Classified as a Class 1 Flammable Liquid for the purposes of storage and handling, in accordance with requirements of AS1940-93. Refer to State Regulations for storage and transport requirements.

Store in closed steel or plastic containers. Keep containers sealed when not in use. Keep away from oxidising agents. Do not store near food, drink and animal feeding stuffs. Keep locked up and away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards:

Worksafe Australia has not determined and Exposure Standard for this product or its ingredients.

SUBSTANCE	TWA (8Hr)		STEL (15 Min)	
	ppm	mg/m ³	ppm	mg/m ³
Heterocyclic ether proprietary ingredient)	2	5	5	13

8. EXPOSURE CONTROLS/PERSONAL PROTECTION: - continued

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).

Time-weighted average (TWA) is defined as the concentration of that substance over an eight-hour working shift, and apply to an eight-hour day, for a five-day working week over an entire working lifetime. Short Term Exposure Limits (STEL) and Peak Limitations may also be specified for short periods of exposure such as 15 minutes.

Engineering Controls:

Use in a well ventilated areas. Do not breathe vapour/fumes. Engineering controls should be provided which maintain airborne concentrations as low as practicable.

Personal Protective Equipment:

Follow normal industrial/chemical hygiene practices. After contact with skin, wash immediately with plenty of soap and water.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level, which is adequate to protect worker health, select Respiratory Protective Equipment suitable for the specific conditions of use and meeting relevant legislation and in accordance with AS/NZS 1715 and AS/NZS 1716. Where air-filtering respirators are suitable, select appropriate combination of mask and filter.

Skin Protection: Where hand contact with the product may occur the use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection Safety shoes or boots – chemical resistant. Standard issue work clothes. Soiled work clothing should be laundered or dry-cleaned.

Eye Protection: It is recommended that safety glasses and goggles be used.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Light pale amber liquid, lighter than water
Odour:	Characteristic odour
pH:	Not determined
Vapour Pressure:	3.5
Vapour Density (AIR=1):	3.5
Boiling Point:	Not applicable
Melting Point:	Not applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.900 g/cm
Flashpoint:	130°C
Flammability Limits:	LEL None allocated UEL None allocated
Auto ignition Temperature:	Not applicable
Viscosity:	Light viscosity
Volatile Component:	< 19%

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10. STABILITY AND REACTIVITY:

Chemical Stability:	Stable under normal use conditions.
Conditions to Avoid:	Do not store near food, drink and animal feeding stuffs.
Incompatible Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	Not determined
Under fire conditions:	May release small quantities of organic degradation product.
Hazardous Reactions:	Not determined.

11. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	May cause irritation to mouth, throat and digestive tract.
Eye:	May cause eye irritation but will not damage eye tissue.
Skin:	May cause skin irritation. Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases dermatitis.
Inhaled:	Mild irritant. Over exposure can produce irritation of nose, throat with sneezing and coughing. Low hazard during normal use.
Chronic:	Repeated or prolonged contact may defat the skin and lead to allergic contact dermatitis.

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	No information available on this product.
Persistence and Degradability:	No information available on this product.
Mobility:	Product is insoluble.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers:	Do not allow to enter public sewers and watercourses. If contamination of drainage system or watercourses is unavoidable, immediately inform appropriate authorities. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.
Special precautions for Landfill or Incineration:	No information available on this product.



14. TRANSPORT INFORMATION:

Not classified as a Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road or Rail.

15. REGULATORY INFORMATION:

Statement of Hazardous Nature:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

Hazard Identification	T	Toxic
Risk Phrase:	R45	May cause cancer
Safety Phrase:	S2	Keep out of the reach of children
	S53	Avoid exposure – obtain special instructions before use
	S45	In case of accident or if you feel unwell seek medical advice immediately (show label where possible)

16. OTHER INFORMATION:

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