



FORTRON ENGINE FLUSH

Material Safety Data Sheet

HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (formerly ASCC and NOHSC)

Section 1 Identification of the Preparation and the Company

Identification of the preparation

Product name: Fortron Engine Flush
Product codes: FEFB – 200 litre drum
FEF20 – 20 litre container
FEF10 – 10 litre container
FEF – 325ml bottle

Intended use: An advanced chemical formulation helping to remove contaminants.
Lubricates internal combustion engine components. Liquid addition to lubricating oil.

Identification of the Company

Manufacturer Fortron Automotive Treatments Pty Ltd
14-18 Sangiorgio Court
Address Osborne Park
Perth WA 6017
Country Australia
Telephone +618 9202 7800 (Monday – Friday 8:30 am – 5:00 pm)
Facsimile +618 9202 7851
Web site www.fortron.com.au
Poisons Information Centre. Phone (eg Australia 13 1126; New Zealand 0800 764 766).
Australian emergency phone number

Section 2 Hazard Identification

HAZARDOUS SUBSTANCE The product is classified as hazardous according to the criteria of Safe Work Australia (formerly the Australian Safety and Compensation Council (ASCC), formerly NOHSC)

DANGEROUS GOOD This product is not a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code).

CLASSIFICATION T Toxic

RISK PHRASES R45 May cause cancer

SAFETY PHRASES S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53: Avoid exposure-obtain special instructions before use.

Section 3 Composition/Information on Ingredients

The product lubricates internal combustion engine components and contains hazardous ingredients at concentrations above the concentration cut-offs specified by Safe Work Australia.

Name	CAS Number	Concentration w/w
Paraffinic Lube Oil	64742-01-4	< 70%
Paraffinic Lube Oil	64741-91-9	< 25%
Paraffin Oils Chloro C18	85422-92-0	< 10%
IBO Methyl Ester/Sulf	68991-11-0	< 6.0%
Di-Linoleic Acid Dimer	6-144-28-1	< 0.5%



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Section 4 First-aid Measures

INGESTION: If swallowed NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK NOR ATTEMPT TO INDUCE VOMITING. If the person is conscious, rinse mouth out with water ensuring that mouthwash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek URGENT medical attention. For advice, contact a Poisons Information Centre (phone eg Australia 131 126; New Zealand 0800 764 766).

INHALATION: Remove to fresh air. Keep warm and at rest. If breathing is laboured, hold in a half upright position (this assists respiration). Apply artificial respiration if breathing has stopped. Seek URGENT medical attention for all but the most minor cases of over-exposure.

EYE CONTACT: If in eyes, IMMEDIATELY hold eyelids apart and flush the eye continuously with running water. Seek medical attention. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

SKIN CONTACT: Remove contaminated clothing. Rinse the affected area with water then wash thoroughly with soap and water. Use water alone, if soap is unavailable. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

ADVICE TO DOCTOR: Treat symptomatically

Section 5 Fire-fighting Measures

FIRE HAZARD: Combustion Products: Halogen, oxides of sulphur, chlorine, and nitrogen.

PRECAUTIONS: For fires involving this material, do not enter any enclosed or confined space without AS/NZS 1716 approved self-contained breathing apparatus (SCBA) to protect against the hazardous effects of combustion products or oxygen deficiency.

EXTINGUISHING MEDIA: In case of fire, use water fog, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill had not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak.

Section 6 Accidental Release Measures

Remove all sources of ignition. Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing to minimise exposure. Cover spill with a generous amount of inert absorbent material. Sweep up and place in a labelled disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a labelled disposable container. Prevent contamination of groundwater or surface water. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Section 7 Handling and Storage

STORAGE: Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials).

HANDLING: Avoid prolonged or repeated contact with skin in order to lessen the possibility of skin disorders. It is essential that all who come in contact with this material maintain high standards of personal hygiene i.e., washing hands prior to eating, drinking or going to the toilet. Build up of mists in the working atmosphere must be prevented.



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Section 8 Exposure Controls / Personal Protection

EXPOSURE STANDARDS: Exposure Standards have not been allocated to this product. Information for ingredients is: Oil Mist E.S. TWA: 5mg/m³.

Exposure standard represents the airborne 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. The exposure standard can be of three forms; time-weighted average (TWA), peak, or short term exposure limit (STEL).

Biological Limit Values: None allocated.

ENGINEERING CONTROLS: General (mechanical) ventilation is adequate for minor use but ventilation must be sufficient to maintain vapour levels below the appropriate exposure standard and fan forced or local exhaust ventilation may be required if using large amounts of this product in a poorly ventilated area.

PERSONAL PROTECTION:

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate AS/NZS 1715/1716 approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Skin Protection: Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or drycleaned. The use of PVC or nitrile gloves is recommended.

Eye Protection: Wear safety glasses.

Hygiene Recommendations: Keep an eye wash fountain available. Keep safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before re-use..

Section 9 Physical and Chemical Properties

Appearance	Honey straw coloured – light viscosity.
Odour	Characteristic
Solubility	Nil
pH	Not determined
Boiling point	293°C (based on Paraffinic Lube Oil)
Flash point	136°C (Closed Cup) Pensky - Martens
Vapour Density	>5
Vapour pressure	<0.01 @20 °C (based on Paraffinic Lube Oil)
Specific gravity	0.90

Section 10 Stability and Reactivity

STABILITY: Stable under recommended storage and handling conditions (refer to Section 7).

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve toxic fumes, oxides of carbon and incompletely burned hydrocarbons, if heated to decomposition or burned.

CONDITIONS TO AVOID: Exposure to heat or sources of ignition.

MATERIALS TO AVOID: Strong oxidising agents such as liquid or powdered chlorine.



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Section 11 Toxicological Information

HEALTH HAZARDS ACUTE

INGESTION: May cause irritation to mouth, throat and digestive tract. Swallowing can result in drowsiness, nausea, vomiting and may lead to unconsciousness..

EYE: May cause eye irritation but will not permanently 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.

INHALATION: High vapour concentrations unlikely to be present at ambient temperatures. Vapours or mists generated may cause irritation of the upper respiratory tract.

HEALTH HAZARDS CHRONIC

Repeated or prolonged contact may defat the skin and lead to allergic contact dermatitis.

Mineral oil: LD50 >5000 mg/kg Oral Rat

Mineral oil: LD50 >2000 mg/kg Dermal Rabbit.

Section 12 Ecological Information

Ecotoxicity: Does not present a serious hazard.

Persistence and Degradability: No information available on this product.

Mobility: Low viscosity and mild dispersions renders product mobile.

Section 13 Disposal Considerations

Disposal Methods and Containers:

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Special Precautions for Landfill or Incineration:

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Section 14 Transport Information

Land Transport ADR/RID:

UN No: 1993

Class: 3

Proper Shipping Name: Flammable Liquid, NOS (Contains Petroleum Distillate)

Packing Group: III

Tremcard: 30G35

HI No: 30

ADR Classification Code: F1

Limited Quantities Code: LQ7

Tunnel Restriction Code: (D/E)

Maritime Transport IMDG:

UN No: 1993

Class: 3

Proper Shipping Name: Flammable Liquid, NOS (Contains Petroleum Distillate)

Packing Group: III

Marine Pollutant: Yes

Tremcard: 30G35

EmS No: F-E, S-E



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Section 15 Regulatory Information

Product is not a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Section 16 Further Information

REFERENCES

1. List of Designated Hazardous Substances [NOHSC: 10005(1999)]
2. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011(2003)]
3. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
4. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 6th Edition, 1998
5. International Maritime Dangerous Goods Code (IMDG), and current amendments

ABBREVIATIONS

LC50	Lethal dose for 50% of test population, by inhalation.
LDLo	Lowest documented lethal dose
LD50	Lethal dose for 50% of test population, by ingestion or skin contact
TDLo	Lowest published toxic dose

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Revision Number: 003
Dated 18th July 2011