



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron DIESEL SYSTEM TREATMENT**

Other Names: **DIESEL FUEL N.O.S**
FDIB – 205 litre drum
FDI20 – 20 litre container
FDI10 – 10 litre container
FDI – 325ml bottle

Recommended Use: Diesel System Treatment is a scientifically formulated product containing a balanced blend of detergents, dispersants, corrosion and oxidation inhibitors, lubricating agents and biocide, which are compatible with all diesel fuels. It cleans and maintains the cleanliness of the fuel system, injectors and burner nozzles by removing gum and varnish deposits and helps restore the functional efficiency of the injector system. It also helps maintain the cleanliness of the total fuel system and helps prevent corrosion of metal components caused by interaction of air and oxygen.

Supplier: Fortron Automotive Treatments Pty Ltd
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Perth, Western Australia 6017
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Phone: (618) 9202 7800 (Monday – Friday 8.30am – 5.00pm)
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2. HAZARDS IDENTIFICATION:

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC, AND AS DANGEROUS GOODS ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS CODE

Hazard Identification

Risk Phrase: R10 Flammable
R40 Possible risk of irreversible effects
R65 Harmful: may cause lung damage if swallowed.



2. HAZARDS IDENTIFICATION: - continued

Safety Phrase:	S2	Keep out of the reach of children
	S24	Avoid contact with skin
	S43	In case of fire use foam, dry powder or carbon dioxide. Never use water jets.
	S61	Avoid release to the environment. Refer to special instructions/Safety Data Sheets
	S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label
	S36/37	Wear suitable protective clothing and gloves

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Hazardous Components</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Hydrocarbons, C ₉₋₂₀ , diesel oil	68334-30-5	< 80%
Petroleum Hydrocarbons	69430-35-9	< 10%
Amine/Amide Carboxylate	Trade Secret	< 5%
Petroleum Naphtha	8030-30-6	< 5%
Benzimidazole	4856-97-7	< 0.05%
Di-Linoleic Acid	506-26-3	< 0.5%
Proprietary Inhibitor	17804-35-2	< 0.5%
Proprietary Biocide	Trade Secret	< 0.01%

4. FIRST AID MEASURES:

Swallowed: If swallowed **Do NOT** induce vomiting. Rinse mouth with water. Give water to drink. Seek prompt medical attention.

For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 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. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Seek medical advice.

Skin: If product gets on skin, thoroughly wash contacted areas. No further measures should normally be required unless irritation is noticed. If irritation persists, seek medical attention.



4. FIRST AID MEASURES: - continued

Inhaled: No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed remove to fresh air and observe until recovered. Irritation becomes painful or persists more than about 30 minutes, seek medical advice.

First Aid Facilities: Safety shower, mild soap and eye wash facilities.

Advice to Doctor: Treat symptomatically. Note the nature of this product. Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and the underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

5. FIRE FIGHTING MEASURES:

R10 – Flammable There is a slight risk of an explosion from this product if it is involved in a fire.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Unsuitable extinguishing media – Never use water jets.

Unusual Fire & Explosion Hazards: Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards, even at temperatures below the normal flash point. Tank headspaces should always be regarded, as potentially flammable and care should be taken to avoid static electricity discharge and all ignition sources during filling, ullaging and sampling from storage tanks. Hoses should be electrically continuous. Ensure equipment used is properly earthed or bonded to the tank structure. Will present a flammability hazard if heated above the flash point but bulk liquids at normal storage temperatures present a low fire hazard. If fuel contacts hot surfaces, or leaks from high pressure fuel pipes, the vapour and/or mists generated will create a flammability or explosion hazard. Empty containers represent a fire hazard as they may contain remaining flammable residues and vapour. Do not weld, heat or drill the container. Do not introduce an ignition source. Heating may cause an explosion. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire Fighting Precautions: If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Hazchem Code: 3[Z]



6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures: In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including facemask, face shield, gauntlets and self-contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills wash area preventing runoff from entering drains. If a significant quantity or material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry. This product may heat to combustion if absorbed onto certain porous materials. Any cleanup product of that type should only be used if recommended for this type of product by its supplier. Any used material should be stored in a safe and disposed of promptly.

Methods and Materials

for Containment and Clean up:- Small Spills/Major Spills - Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage.

7. HANDLING AND STORAGE:

Precautions for Safe Handling:

Keep out of reach of children. Avoid contact with skin. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Conditions for Safe Storage:

No special storage and transport requirements. This product is a S5 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Material to avoid" below.

This product is classed as UN1202, Dangerous Goods Class 3 Flammable Liquids.

Class 3 Flammable Liquids shall not be loaded in the same vehicle or packed in the same freight container with:-

- Class 1 Explosives
- Class 2.1 Flammable Gases where flammable liquids and flammable gases are both in bulk
- Class 2.3 Toxic Gases



7. HANDLING AND STORAGE: - continued

- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising Agents
- Class 5.2 Organic Peroxides
- Class 6. Toxic Substances, except Flammable Liquid is nitromethane
- Class 7 Radioactive Substances

They may however be loaded in the same vehicle or packed in the same freight container with Class 2.1 (Flammable Gases except where the Flammable Liquids and Flammable Gases are in bulk). Class 2.2 (Non Flammable Non Toxic Gases) Class 4.3 (Dangerous When Wet Substances) Toxic 6 (Toxic Substances, except where Flammable Liquid is nitromethane) Class 8 (Corrosive Substances) Class 9 (Miscellaneous Dangerous Goods), Foodstuffs or foodstuff empties.

This product is a S5 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established.

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:

In industrial situation, concentration values below the TWA value should be maintained. Values may be reduces by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high; you are advised to modify the process or environment to reduce the problem.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION: - continued

Personal Protective
Equipment:

Respiratory Protection: The use of a dust or vapour mask is suggested when this product is being used, especially if in confined or dusty spaces. For help in selecting suitable equipment, consult AS/NZS1715.

Protective Gloves: Impermeable protective gloves should be worn when you are using this product. Failure to do so will lead to irritation of the skin. For help in selecting suitable equipment, consult AS2161.

Eye Protection: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Consult AS1336 and AS/NZS1337 for advice on Industrial Eye Protection.

Clothing Protection: Clean impermeable overalls or protective clothing should always be worn when handling this product, clothing should be destroyed. Consult AS2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS for advice on Occupational Protective Footwear.

Hygiene Recommendations: Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Colourless to brown mobile liquid
Odour:	Mid odour
pH:	Not applicable
Vapour Pressure:	180°C-380°C @ 100kPa
Vapour Density:	Not applicable
Boiling Point:	180°C-380°C @ 100kPa
Melting Point:	No specific data. Liquid at normal temperatures
Solubility in Water:	Insoluble
Specific Gravity:	0.84 @ 15°C
Flashpoint:	57°C (Closed Cup) Pinsky - Martens
Flammability Limits:	LEL 0.7 % UEL 5.0 %
Auto Ignition Temperature:	Not applicable
Volatile Component:	Slowly volatile at 100%, but completely volatile at high temperatures
Vsicosity:	2.1-5.5mm ² /sec @ 40°C

10. STABILITY AND REACTIVITY:

Chemical Stability:	This product is unlikely to spontaneously decompose.
Conditions to Avoid:	Avoid strong oxidising agents.
Incompatible Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.



11. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death.
Eye:	This product is mildly irritating to the eyes. It is likely to cause mild discomfort such as watering and redness of the eyes. However, this should quickly disappear once exposure is over.
Skin:	This product may irritate skin. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects.
Inhaled:	Date indicates that this product may be irritating if inhaled. May lead to minor discomfort, which should quickly disappear once exposure has ceased.

12. ECOLOGICAL INFORMATION:

Environmental Hazards:	No specific data available.
Ecotoxicity:	No specific data available.
Persistence and Degradability:	No specific data available.
Mobility:	No specific data available.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers:	Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. This product may heat to combustion if absorbed onto certain porous materials. Any cleanup product of that type should only be used if recommended for this type of product by its supplier. Any used material should be stored in a safe area and disposed of promptly.
Special Precautions for Landfill or Incineration:	This material may be suitable for approved landfill. Dispose of only in accord with all regulations.



14. TRANSPORT INFORMATION:

UN Number: 1202
UN Proper Shipping Name: Diesel Fuel N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: Poison Schedule S5
Hazchem Code: 3[Z]

Land Transport (ADG):
UN Number: 1202
UN Proper Shipping Name: Diesel Fuel N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: Poison Schedule S5
Hazchem Code: 3[Z]

Air Transport (ICAO/IATA):
UN Number: 1202
UN Proper Shipping Name: Diesel Fuel N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: Poison Schedule S5
Hazchem Code: 3[Z]

Marine Transport (IMDG/IMO):
UN Number: 1202
UN Proper Shipping Name: Diesel Fuel N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: Poison Schedule S5
Hazchem Code: 3[Z]

15. REGULATORY INFORMATION:

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

Poison Schedule: S5
Hazard Identification:
Risk Phrase: R10 Flammable
R40 Possible risk of irreversible effects
R65 Harmful: may cause lung damage if swallowed.
Safety Phrase: S2 Keep out of the reach of children
S24 Avoid contact with skin
S43 In case of fire use foam, dry powder or carbon dioxide. Never use water jets.
S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label
S36/37 Wear suitable protective clothing and gloves



16. OTHER INFORMATION:

Date of Issue: 18th July 2011
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Please Note:

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