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# **Material Safety Data Sheet**

## **IDENTIFICATION OF THE MATERIAL AND SUPPLIER:**

Product Name: Fortron DTI INDUCTION SERVICE KIT

Other Names: DTI DIESEL INDUCTION SERVICE KIT

FDTIKIT – Service Kit

1 x FDTI - DTI System Cleaner

1 x FDSB – Hi-Tane Diesel System Booster 1 x TBTOOL – DTI Throttle Body Cleaning Tool

Recommended Use: This service kit contains two products that will provide the following benefits:-

<u>DTI System Cleaner</u> – Helps maintain EGR and diesel induction system.

Hi-Tane Diesel System Booster - Improves cetane rating by as much as 4 points

while cleaning the fuel system.

Supplier: Fortron Automotive Treatments Pty Ltd

14-18 Sangiorgio Court, Osborne Park

Perth, Western Australia 6017

ACN 008 872 197 ABN 12 008 872 197

Phone: (618) 9202 7800 (Monday – Friday 8.30am – 5.00pm)

Fax: (618) 9202 7851

www.fortron.com.au

Emergency Telephone No: Poisons Information Centre. Phone (Australia 131126; New Zealand 0800 764

766).





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## **DTI SYSTEM CLEANER**

Section 1 Identification of the Preparation and the Company

1.1 Identification of the preparation

Product name: FORTRON DTI SYSTEM CLEANER

Other Names DTI SYSTEM CLEANER
Product code: FDTI – 80 gm
Intended use: For Diesel Engines

Helps maintain EGR and induction system.

Removes gum and varnish and helps reduce pollution

1.2 Identification of the Company

Manufacturer Fortron Automotive Treatments Pty Ltd

14-18 Sangiorgio Court

Address Osborne Park
Perth WA 6017

Δuetralia

Country Australia

Telephone +618 9202 7800 (Monday – Friday 8:30 am – 5:00 pm)

Facsimile +618 9202 7851 Web site +618 9202 r851 www.fortron.com.au

Poisons Information Centre. Phone (eg Australia 13 1126; New Zealand

Australian emergency phone number 0800 764 766).

## Section 2 Hazard Identification

HAZARDOUS SUBSTANCE. DANGEROUS GOODS; Xn Harmful

The product is classified as hazardous according to the criteria of Safe Work Australia (formerly ASCC, NOHSC). It is Class 2.1 dangerous good.

RISK PHRASES

R38 Irritating to skin

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

R62 Possible risk of impaired fertility

## Section 3 Composition/Information on Ingredients

The product is an cleaner spray, which contains hazardous ingredients at concentrations above the concentration cut-offs specified by Safe Work Australia.

NameCAS NumberConcentration w/wNaphtha (petroleum), hydrotreated light64742-49-030-40%n-Hexane110-54-3<15%</td>Hydrocarbon propellant (propane / butane)74-98-6 / 106-97-850-60%Other ingredients determined to be non-hazardousNot availableBalance





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### Section 4 First-aid Measures

INGESTION: Unlikely to occur considering the packaging of the product but 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: Aerosol with highly flammable contents. Do not spray near sources of ignition such as open flames, sparks, hot surfaces or burning cigarettes. Aerosol cans may exploded if heated above 54 degrees Celsius.

PRECAUTIONS: In case of fire, wear self-contained breathing apparatus. If possible remove aerosol containers from the vicinity of the fire. Otherwise keep containers as cool as possible by spraying with water, from a protected position.

EXTINGUISHING MEDIA: Extinguish using carbon dioxide, dry chemical or foam. Water jets are not suitable for fire fighting

## Section 6 Accidental Release Measures

Wipe up with paper towels or similar. Remove leaking aerosols to a well-ventilated (preferably outdoor) area so that the solvent can evaporate safely. Dispose as an empty aerosol container

## Section 7 Handling and Storage

STORAGE: Store out of direct sunlight in a cool well-ventilated area. High temperatures may cause pressure build up inside aerosol cans. Protect containers against physical damage.

HANDLING: Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Provide adequate ventilation. Avoid vapour concentration above the exposure standards. Avoid inhalation of vapour and spray mist. Avoid skin or eye contact. Keep aerosols (either full or empty) away from sources of ignition – No smoking. For Personal Protective Equipment (PPE), see Section 8.

Class 2.1 Flammable Gases should not be stored with goods of:

Class 1 Explosives

Class 3 Flammable Liquids (where both flammable liquids and flammable gases are in bulk)

Class 4.1 Flammable Solids

Class 4.2 Spontaneously Combustible Substances

Class 4.3 Dangerous When Wet Substances

Class 5.1 Oxidising Agents
Class 5.2 Organic Peroxides

Class 7 Radioactive Substances





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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: Hexane: E.S. TWA: 20ppm, 72mg/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: Aerosols cans may generate high vapour levels. Do not disregard ventilation requirements because of small product size.

Ventilation requirements depend on the quantity of product in use. 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: Safety glasses are adequate for normal use. Avoid spraying onto skin. PVC, neoprene, nitrile or butyl rubber gloves should be worn, if necessary to prevent skin contact. A half face respirator with organic solvent vapour filter may be required in poorly ventilated conditions. In confined spaces use air supplied breathing apparatus. N.B. TAKE THE LIMITS OF ABSORPTION CAPACITY INTO ACCOUNT. CHANGE FILTERS REGULARLY.

# Section 9 Physical and Chemical Properties

Appearance Slightly viscous liquid.

Odour Characteristic
Colour Clear
Solubility Insoluble
Ph: 1% Solution Not pertinent

Boiling point Within the range -42°C to 0°C (based on the propellant)

Flash point Within the range -104°C to 60°C (based on the propellant)

Explosive properties Within the range 1.5% to 9.6% (in air v/v) (based on the propellant)

Vapour pressure >atmospheric (based on the propellant)

Specific gravity 0.73 (liquid)

## 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: Not considered a likely route of entry as the product is in aerosol form but the contents would be Irritating if ingested and could cause coughing, headache, dullness, abdominal spasm and diarrhoea as well as symptoms similar to those for inhalation.

EYE: Liquid and high vapour concentration are irritating and may cause watering of the eyes.

SKIN: Irritating. Contact with the product may defat the skin and contribute to dermatitis.

INHALATION: Exposure to solvent vapour concentrations in excess of the relevant exposure standards (see Section 8) may result in adverse health effects. Symptoms of over exposure include headache, drowsiness, fatigue, dizziness and in extreme cases, loss of consciousness.

### **HEALTH HAZARDS CHRONIC**

Inhalation is the main route of entry into the body. The product defats the skin and prolonged or repeated contact may contribute to dermatitis. Chronic high level n-Hexane exposure damages the nervous system initially producing a lack of feeling in the extremities and possibly progressing to a more severe nerve damage.

Inhalation of high levels (1000 and 5000 ppm) of n-Hexane has produced testicular damage in rats. Mice exposed to the same dose levels showed no testicular effects.

Hexane, LD50 (oral, rat): 28700 mg/ kg, LC50 (inhaled, rat): 48000 ppm/4h

## Section 12 Ecological Information

Hazardous to the environment. Do not allow to enter drains or waterways.

WATER: The product will volatilise rapidly from water (half life - days). Bio concentration should not be significant. SOIL: Product will biodegrade quickly in soil and water.

ATMOSPHERE: The product is expected to exist predominantly in the vapour phase and will be rapidly degraded in the atmosphere by reaction with photochemically produced hydroxyl radicals.

## Section 13 Disposal Considerations

DO NOT puncture or incinerate empty aerosol containers. Dispose to approved landfill. However, do not dispose to waste that is likely to be incinerated.

## Section 14 Transport Information

This product is a Class 2.1 dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code).

UN Number: 1950

Proper shipping name: AEROSOLS FLAMMABLE

DG Class: 2.1 HazChem code: 2[Y]

Packing group:

Class 2.1 Flammable Gases should not be transported or stored with goods of:

Class 1 Explosives

Class 3 Flammable Liquids (where both flammable liquids and flammable gases are in bulk)

Class 4.1 Flammable Solids

Class 4.2 Spontaneously Combustible Substances Class 4.3 Dangerous When Wet Substances

Class 5.1 Oxidising Agents
Class 5.2 Organic Peroxides
Class 7 Radioactive Substances





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## Section 15 Regulatory Information

Product is a Scheduled 5 (S5) Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

LABELLING INFORMATION

**RISK PHRASES** 

R11 Highly flammable

R38 Irritating to skin

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

R62 Possible risk of impaired fertility

R65 Harmful: May cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S2 Keep out of reach of children

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking

S29 Do not empty into drains

S33 Take precautionary measures against static discharges

S36/37 Wear suitable protective clothing and gloves

S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 16 Further Information

Date of Preparation 08/09/2011

## **REFERENCES**

- 1. List of Designated Hazardous Substances [NOHSC: 10005(1999)]
- National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC: 2011(2003)]
- 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,
- 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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# **HI-TANE**

Section 1 Identification of the Preparation and the Company

Identification of the preparation Product name: Fortron Hi-Tane

Other Names Hi-Tane Diesel System Booster

FDSB - 250ml Product code:

Intended use: Improves cetane rating by as much as 4 points while cleaning the fuel system.

Identification of the Company

Manufacturer Fortron Automotive Treatments Pty Ltd

14-18 Sangiorgio Court

Address Osborne Park

Perth WA 6017

Country Australia

+618 9202 7800 (Monday - Friday 8:30 am - 5:00 pm) Telephone

Facsimile +618 9202 7851 Web site www.fortron.com.au

Poisons Information Centre. Phone (eg Australia 13 1126; New Zealand Australian emergency phone number

0800 764 766).

#### Section 2 **Hazard Identification**

Hazard designation:

F Flammable

Xn Harmful

N Dangerous for the Environment

Information pertaining to particular dangers for man and environment:

R10 Flammable

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Classification system:

The health and environmental hazards of this preparation have been assessed by the conventional method described

In annex II and III of the preparations Directive 1999/45 EC.

#### **Composition/Information on Ingredients** Section 3

Hazardous Component	EINECS	CAS NO.	INDEX	RISK PHRASES	CONCENTRATION
Petroleum Distillate	265-150-3	64742-48-9	Xn	R10, R65, R66, R51/53	70-100%
2-Ethylhexyl Nitrate	248-363-6	27247-96-7	Xn	R20/21, R44, R51/53	1-10%

Additional Information: For the wording of the listed risk phrases refer to section 16.





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## Section 4 First-aid Measures

Immediate medical attention is required.

**Eye Contact:** Flush with clean water for 15minutes. If irritation persists, obtain medical attention.

Skin Contact: Remove contaminated clothing. Wash off with soap and water. The application of skin reconditioning

(emollient) cream can be beneficial.

**Inhalation:** Remove to fresh air. If symptoms persist, seek medical advice.

Ingestion: Water to drink and rinse may be beneficial. Aspiration Hazard. May cause rapid absorption via lungs,

resulting in injury to other body systems. Do not induce vomiting without medical advice.

## Section 5 Fire-fighting Measures

Suitable Extinguishing Media: Foam, Dry Powder, Co2, Sand, Earth, Fine Water Spray suitable.

Unsuitable Extinguishing Media for Reasons of Safety: Water Jet.

**Special Hazards caused by the material, its products of combustion or flue gases:** Classed as flammable. If involved in fire, may evolve noxious fumes. Fire exposed containers should be sprayed with water to keep cool and avoid bursting.

**Protective Equipment:** Self-contained breathing apparatus may be required.

## Section 6 Accidental Release Measures

**Personal safety precautions:** Remove ignition sources. Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves.

**Measures for environmental protection:** Prevent from spreading (e.g. by dusting a ring of chemical binder). As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Inform authorities in case of contamination of water or sewage system.

**Methods for cleaning/collecting:** Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery.

Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product. Use only in well ventilated areas.

## Section 7 Handling and Storage

## Handling:

Information for safe handling: Keep in tightly closed containers. Take note of emission threshold.

### Storage

**Requirements to be met by storerooms and containers:** Store between 10-35°C. Store in the original containers. Avoid heating and direct sunlight

**Information about storage in a common storage facility:** Store in a cool dry place away from heat or sources of combustion.

Specific Uses: Used as a Diesel fuel system treatment





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#### **Section 8 Exposure Controls / Personal Protection**

## **Exposure limit values:**

Ingredient Name 8hr TWA 15min STEL Petroleum Distillate WEL 600mg/m3

2-Ethylhexyl Nitrate 3.5mg/m3 7.0mg/m3 Manufacturer

EH40 guidance on exposure to mixed solvents.

### Occupational exposure controls:

Respiratory Protection: Unlikely to be necessary. Avoid breathing mists or vapours.

Hand: PVC or rubber gloves are recommended. Eyes: Safety eye goggles should be worn.

Skin: Use protective clothing. Remove contaminated clothing and wash with soap and water.

## **Environmental exposure controls:**

Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

#### **Physical and Chemical Properties** Section 9

Clear Brown Fluid Appearance:

Odour: Solvent **Boiling Range:** 145-250°C 40ºC typical Flash Point: Flammability: Flammable Water Solubility: Insoluble Viscosity @ 40°C: <7.0 cst

Solubility in Organics: Soluble in many

Specific Gravity @ 20°C: 0.820 typical

#### Section 10 Stability and Reactivity

Conditions to Avoid: Protect against naked flames, hot surfaces and other high temperature sources. Could become unstable at elevated temperatures.

Materials to Avoid: Strong oxidising agents.

Hazardous Decomposition Products: Oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic may be produced. Product is stable under normal conditions.

#### Section 11 **Toxicological Information**





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Eyes: Likely to cause irritation and stinging.

Skin:

Prolonged or repeated contact may cause irritation and lead to skin cracking and dermatitis.

Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory Inhalation:

tract, possible inflammation of the lungs.

Aspiration Hazard. May cause lung damage if material gets into lungs after swallowing, breathing the Ingestion:

vapour/spray or vomiting swallowed material. Swallowing of small amounts is not likely to cause serious

discomfort. If swallowed in larger quantities, may cause vomiting and diarrhoea.





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## Section 12 Ecological Information

**Eco-toxicity:** Toxic for aquatic organisms. Hazardous to aquatic life.

**Mobility:** The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.

Persistence and Degradability: Readily biodegradable.

Bio-accumulative Potential: Not expected to bio-accumulate.

## Section 13 Disposal Recommendations

Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations.

Dispose of empty containers in accordance with local and national regulations.

Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

## Section 14 Transport Information

UN Label:





Land Transport ADR/RID: UN No: 1993 Class:

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

Packing Group:

HI No: 30
ADR Classification Code: F1
Limited Quantities Code: LQ7
Tunnel Restriction Code: (D/E)

Maritime Transport IMDG: UN No: 1993 Class:

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

Packing Group: III

Marine Pollutant: Yes





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## Section 15 Regulatory Information

## Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (CHIP).

**Hazard Symbol:** 





Xn Harmful

N Dangerous for the Environment

Risk Phrases: R10: Flammable

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic

environment

Safety Phrases: S24/25: Avoid contact with skin and eyes

S37: Wear suitable gloves

S43: In case of fire use foam/dry powder/CO2 – fine water spray suitable

S61: Avoid release to the environment. Refer to special instructions/safety data sheet S62: If swallowed, do not induce vomiting, seek medical advice immediately and show

this container or label.

### **National Regulations:**

Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH)

Critical quantity values according to the regulations on accidents should be adhered to.

## Section 16 Further Information

In use the product may become contaminated with used oils, grease, dirt and other suspended particulate matter. This will increase the likelihood of skin irritation or dermatitis occurring following prolonged contact with the skin. Steps should be taken to minimise contact with the contaminated fluid. Do not mix with other chemicals.

The information provided in this data sheet has been compiled in accordance with the requirements of the Chemicals (Hazard information and packaging) Regulations 2009 (CHIP 4).

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

## R-phrases relevant to the products hazardous ingredients:

R10: Flammable

R20/21: Harmful by inhalation and in contact with skin.
R44: Risk of explosion if heated under confinement
Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Training Advice: Users should be trained in good industrial hygiene practise.

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