



Fortron Injector Max Fluid - Diesel RTG

Revision:1.0
Dated 28th February 2013
MSDS 222
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Material Safety Data Sheet

HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (formerly ASCC and NOHSC)
NOT A DANGEROUS GOOD

Section 1 - Identification of the Material and Supplier

Product name:	FORTRON INJECTOR MAX FLUID - DIESEL RTG
Other Names	NONE
Product code:	INJDRTG, 600ml
Intended use:	Used in conjunction with an Injector Max Machine to flush and clean diesel injectors
Manufacturer	Fortron Automotive Treatments Pty Ltd
Address	10 Kenhelm Street Balcatta Perth WA 6021
Country	Australia
Telephone	+618 9202 7800 (Monday . Friday 8:30 am . 5:00 pm)
Facsimile	+618 9202 7851
Web site	www.fortron.com.au
Australian emergency phone number	Poisons Information Centre. Phone Australia 13 1126.

Section 2 - Hazards Identification

HAZARDOUS CHEMICAL

The product is classified as hazardous according to the criteria of Safe Work Australia (formerly ASCC, NOHSC).
It is not a dangerous good.

DANGER



May be fatal if swallowed and enters airways.

May cause cancer

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

Do NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use dry chemical, foam or CO2 for extinction.

Store in a well-ventilated place. Keep container tightly closed.



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Section 3 - Composition/Information on Ingredients

Name	CAS Number	Concentration w/w
Diesel fuel (hydrocarbons having carbon numbers predominantly in the range of C9 through C20)	68334-30-5	>25%
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	<40%
Containing:		
Naphthalene (91-20-3)		<10%
1,3,5-Trimethyl benzene (108-67-8)		<10%
1,2,4-Trimethyl benzene (95-63-6)		<10%
Benzene (71-43-2)		<0.1%
2-Butoxyethanol	111-76-2	<10%
Ingredients not classified as hazardous or below the concentration cut-offs		Balance

Section 4 - First-aid Measures

EYES: 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: 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.

INGESTION: 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 mouth wash 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: Avoid becoming a casualty. DO NOT enter a hazardous area without adequate breathing protection. 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.

ADVICE TO DOCTOR: Treat symptomatically. Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

Section 5 - Fire-fighting Measures

FIRE HAZARD: Combustible. Will burn if heated sufficiently. Avoid all sources of ignition such as open flames, sparks, hot surfaces or burning cigarettes. The product may react with strong oxidising agents such as liquid or powdered chlorine.

PRECAUTIONS: Fire fighters should wear self-contained breathing apparatus in a fire situation.

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

Section 6 - Accidental Release Measures

Ensure that there are no sources of ignition present. Remove unnecessary personnel from the affected area. Wear protective equipment as specified for handling. If possible, dam the spill. Cover with an absorbent such as earth, sand or a commercial oil absorber. Sweep up and collect in sealable containers. Dispose to approved landfill.



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Section 7 - Handling and Storage

HANDLING: Keep out of reach of children. Do not breathe vapour. Avoid contact with skin. Avoid release to the environment. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing and re-using. Use protective equipment as in Section 8

STORAGE: Store in a designated no smoking area, away from all sources of ignition, out of direct sunlight in a cool well ventilated area below 25 degrees Celsius. Higher temperatures may cause pressure build up inside containers. Protect containers against physical damage. Containers should be kept closed in order to minimise contamination. Ensure that the product does not come into contact with substances listed under %Materials to Avoid+below.

Section 8 - Exposure Controls / Personal Protection

EXPOSURE STANDARDS: Exposure Standards have not been allocated to this product. Exposure standards for ingredients are:

Naphthalene ES TWA: 10ppm, 52mg/m³ ES STEL: 15ppm, 79mg/m³
2-Butoxyethanol ES TWA: 20ppm, 96.9mg/m³ ES STEL: 50ppm, 242mg/m³
Trimethylbenzene ES TWA: 25ppm, 123mg/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: Ventilation requirements depend on the quantity of product in use and the method of application. Ventilation should be sufficient to maintain vapour levels below the appropriate exposure standard. Use only in well-ventilated areas unless forced air ventilation is employed, this is due to the fire hazard as well as the risks from inhalation. Local exhaust ventilation may be required if large quantities of this product are used in a confined area.

PERSONAL PROTECTION: Requirements are dependent on working conditions, quantity of product in use and method of application. For minor use safety goggles and nitrile, neoprene, polyvinyl chloride (PVC) or natural rubber gloves may be sufficient. If large quantities are in use; chemical resistant safety goggles, gloves or gauntlets and overalls. A half face respirator with organic solvent vapour filter is required for bulk usage unless the area is well ventilated. In confined or poorly ventilated areas 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	Typical
Colour	Amber
Solubility	Insoluble
Ph: 1% Solution	Not pertinent
Boiling point	Approximately 163-357°C
Flash point	>61°C (PMCC)
Explosive properties	LEL: 0.7. UEL: 5.0 (based on diesel fuel)
Vapour pressure	<1mmHg at 20°C
Specific gravity	0.8

Section 10 - Stability and Reactivity

Chemical Stability: Combustible. This product is unlikely to spontaneously decompose.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources. Containers may explode if heated

Incompatible Materials: May react with oxidising materials such as liquid or powdered chlorine and contact should be avoided.

Hazardous Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.



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Section 11 - Toxicological Information

HEALTH HAZARDS ACUTE

INGESTION: Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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 Highly volatile. Vapours are irritating to the eyes, nose and throat and affect the central nervous system, causing coughing, headache, nausea and dizziness. Higher concentrations may cause unconsciousness and coma. Death may result from severe and continued exposure.

HEALTH HAZARDS CHRONIC

Inhalation and ingestion are the routes of entry into the body. The product defats the skin and prolonged or repeated contact may contribute to dermatitis. Chronic exposure may affect kidneys and liver.

Fuels, diesel (68334-30-5) LD50/oral/rat : > 5000 mg/kg

Limited evidence of a carcinogenic effect.

Section 12 - Ecological Information

This material is not expected to be readily biodegradable. On release to the environment the lighter components will generally evaporate but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.) the remainder may become dispersed in the water column or absorbed to soil or sediment. Product would not be expected to be readily biodegradable. In a modified Strum test (OECD method 301B) approximately 40% biodegradation was recorded over 28 days. However, it has been shown that most hydrocarbon components of this product are degraded in soil in the presence of oxygen. Under anaerobic conditions, such as in anoxic sediments, rates of biodegradation are negligible.

Section 13 - Disposal Considerations

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations. Dispose by controlled incineration or to approved land-fill

Section 14 - Transport Information

14.1 UN number - 3082

14.2 UN Proper shipping name

ADR Environmentally Hazardous Substance, Liquid, NOS Contains Petroleum Distillate

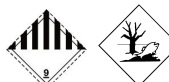
IMDG Environmentally Hazardous Substance, Liquid, NOS Contains Petroleum Distillate

14.3 Transport hazard classes

ADR Class : M6
Hazard ID No. : 90
Classification code : F1
Tunnel restriction code : E
Labels : Class 9 & fish & treeq



IMDG Class : 3
EMS : F-A, S-F
Labels : Class 9 & fish & treeq





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Section 14 – Transport Information (Cont)	
14.4 Packing group	
ADR	: III
IMDG	: III
14.5 Environmental hazards	
Labelling according to 5.2.1.8 ADR :	Yes
Labelling according to 5.2.1.6.3 IMDG	: Yes
Classified as Marine pollutant according to 2.10 IMDG	: Yes
14.6 Special precautions for user	
Not applicable	
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code	
Not applicable	

Section 15 - Regulatory Information
Product is a Scheduled 5 (S5) 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. Safe Work Australia Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals
3. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
4. Standard for the Uniform Scheduling of Medicines and Poisons, 3 rd Edition
5. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 7 th Edition,
6. International Maritime Dangerous Goods Code (IMDG), and current amendments
ABBREVIATIONS
LD50 Lethal dose for 50% of test population, by ingestion or skin contact
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