



FORTRON INJECTOR MAX PETROL-RTG

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 INJECTOR MAX PETROL-RTG
Other Names FORTRON INJECTOR MAX PETROL- READY TO GO

Product code: INJPRTG – 600ml can

Intended use: A premium quality ready to go (Premix) solvent designed to clean fuel injectors, rail and valves in petrol engines. Product is compatible with Fortron Injector Max equipment

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
Australian emergency phone number Poisons Information Centre. Phone (eg Australia 13 1126; New Zealand 0800 764 766).

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 a Class 3 dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code).

CLASSIFICATION T Toxic

RISK PHRASES R11: Highly flammable
R45: May cause cancer
R46: May cause heritable genetic damage
R65: Harmful: May cause lung damage if swallowed

SAFETY PHRASES (S2): Keep out of reach of children
S23: Do not breath vapour
S24: Avoid contact with skin
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
S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label..



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Section 3 Composition/Information on Ingredients

The product contains hazardous ingredients at concentrations above the concentration cut-offs specified by Safe Work Australia.

Name	CAS Number	Concentration
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	<50%
Gasoline	86290-81-5	<50%

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 Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.

PRECAUTIONS: Wear full protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Foam, water spray or fog. For small fires only, use dry chemical powder or carbon dioxide. Do not use water in a jet.

Section 6 Accidental Release Measures

Observe all local and national regulations.

Spills and Disposal: Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Remove all sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

Methods and Materials for Containment and Clean Up Procedures: For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.



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Section 7 Handling and Storage

Precautions for Safe Handling and Storage: Avoid breathing material and contact with skin, eyes and clothing. Wash thoroughly after handling. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants. Avoid contact with natural, butyl or nitrile rubbers.

Dispensing: Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Containers, including those that have been emptied, can contain explosive vapours.

Flammability: Combustible.

Section 8 Exposure Controls / Personal Protection

EXPOSURE STANDARDS: Exposure Standards have not been allocated to this product. In the absence of an occupational standards the following is recommended to be adopted: 100mg/m³ TWA (8hr).

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: Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use..

PERSONAL PROTECTION:

Respiratory Protection: If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65 Deg C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

Skin Protection: Use solvent resistant gloves. Use nitrile for longer term protection or PVC/neoprene for incidental splashes.

Eye Protection: Wear safety glasses.

Hygiene Recommendations: Use chemical resistant glove/gauntlets, boots and apron.. Launder contaminated clothing before re-use..

Section 9 Physical and Chemical Properties

Appearance	Colourless Liquid
Odour	Hydrocarbon/Aromatic
pH:	N/A
Vapour Pressure (mmHg @ 20 ° C):	< 1.3 kPa @ 20 ° C Based on Solvent naphtha (petroleum), heavy aromatic
Vapour Density (air = 1)	4.8 Based on Solvent naphtha (petroleum), heavy aromatic
Boiling Point (° C):	Typical 158 - 214 Based on Solvent naphtha (petroleum), heavy aromatic
Freezing/Melting Point (° C):	Data not available
Solubility in Water	Not miscible with water
Specific Gravity (g/ml @ 15 ° C):	0.88-0.91 Based on Solvent naphtha (petroleum), heavy aromatic
Flashpoint (°C):	- 40 °C (Closed Cup) Pensky - Martens
Explosion/Flammability Limits (%):	0.01 – 7 Based on Solvent naphtha (petroleum), heavy aromatic
Auto Ignition Temperature (° C):	Typical 449 Based on Solvent naphtha (petroleum), heavy aromatic
Percent Volatiles	90



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Section 10 Stability and Reactivity

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidising agents.

Hazardous Decomposition Products: Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Section 11 Toxicological Information

HEALTH EFFECTS

Acute:

Swallowed: Low toxicity: LD50 > 2000mg/kg, Rat. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Eye: Moderately irritating to eyes (but insufficient to classify).

Skin: Low toxicity: LD50 > 2000mg/kg, Rat. May cause mild skin irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis.

Inhaled: Low toxicity: LC50 greater than near-saturated vapour concentration – 4 hours Rat. Inhalation of vapours or mists may cause irritation to the respiratory system.

Chronic: Central nervous system: repeated exposure affects the nervous system.

Section 12 Ecological Information

Ecotoxicity:

Fish : Expected to be toxic: $1 < LC/EC/IC50 \leq 10mg/l$

Aquatic Invertebrates : Expected to be toxic: $1 < LC/EC/IC50 \leq 10mg/l$

Algae : Expected to be toxic: $1 < LC/EC/IC50 \leq 10mg/l$

Microorganisms : Expected to be toxic: $1 < LC/EC/IC50 \leq 10mg/l$

Mobility: Floats on water. Adsorbs to soil and has low mobility.

Persistence/degradability: Expected to be readily Biodegradable. Oxidises by photo-chemical reactions in air.

Bioaccumulation: Has the potential to bioaccumulate.

Section 13 Disposal Considerations

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations. Do not, puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer. Do not dispose into the environment, in drains or in water courses.



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Section 14 Transport Information

This product is a Class 3 Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code).

ADG
UN number 1203
Proper shipping name GASOLINE
Class 3
Packing group II
Hazchem Code
3YE

IMDG
Identification number UN 1203
Proper shipping name PETROL
Class / Division 3
Packing group II
Marine pollutant: Yes

IATA
UN No. : 1203
Proper shipping name : Gasoline
Class / Division : 3
Packing group : II

Section 15 Regulatory Information

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



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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
TDL0	Lowest published toxic dose

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