



FORTRON PETROL INJECTOR CLEANER

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 PETROL INJECTOR CLEANER

Other Names: PETROLEUM PRODUCTS N.O.S.

FPICB – 200 litre drum

FPIC20 – 20 litre container

FPIC10 – 10 litre container

Product code: FPIC – 325ml bottle

Intended use: Petrol Injector Cleaner is a very highly concentrated cleaning treatment designed to combat deposits in fuel injection systems of modern motor vehicle engines

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 8:00 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 Xn Harmful

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

R63: Possible risk of harm to the unborn child

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

S25: Avoid contact with eyes

S36/37: Wear suitable protective clothing and gloves

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
Kerosene (petroleum), hydrodesulfurized	64742-81-0	50-95%
Amine/Amide Carboxylate		5-20%
Solvent Neutral Paraffinic Hydrocarbon	64742-56-9	5-20%
Linoleic Acid Dimer	6144-28-1	0.1-5%
2-Pentanol 4-Methyl	108-11-2	1-5%
Toluene	108-88-3	1-20%

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. Because of risk of aspiration, gastric lavage should only be undertaken after endotracheal intubation. Note the nature of this product.

Section 5 Fire-fighting Measures

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.

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.

EXTINGUISHING MEDIA: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Foam is the preferred medium for large fires.

UNSUITABLE EXTINGUISHING MEDIA – Do not use water in a jet.



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Section 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. Avoid using sawdust or other combustible material. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage.

Methods and Materials for Containment and Clean Up:- Small Spills/Major Spills - Absorb onto sand, vermiculite or other suitable absorbent material. Avoid using sawdust or other combustible material. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage.

Section 7 Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Do not breathe vapour. Avoid contact with skin. In case of fire use foam or dry powder; never use water jets. 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.

Conditions for Safe Storage: This product is classed as UN1268, 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

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.



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Section 8 Exposure Controls / Personal Protection

National Exposure Standards: Worksafe Australia has assigned the following standards for this product.

SUBSTANCE	Occupational Exposure Limits	TWA ppm	TWA mg/m ³
Kerosene (petroleum) Hydrodesulfurized			10
Toluene		50	188

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; timeweighted 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.

Personal Protective Equipment:

Respiratory Protection: It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred. 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.

Section 9 Physical and Chemical Properties

Appearance: Amber liquid, lighter than water

Odour: Mild hydrocarbon odour

pH: Not applicable

Vapour Pressure: 0.2 kPa @ 20°C

Vapour Density: > 1 (Heavier than air)

Boiling Point: 150°C - 280°C @ 100kPa

Melting Point: < -20°C

Solubility in Water: Insoluble

Specific Gravity: 0.80 g/cm³

Flashpoint: 44°C (Closed Cup) Pensky - Martens

Flammability Limits: LEL 0.7 %

UEL 5.0 %

Auto Ignition Temperature: > 200°C

Volatile Component: Slowly volatile at 100%, but completely volatile at high temperatures

Evaporation Rate: 0.14 (n-butyl acetate = 1)



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Section 10 Stability and Reactivity

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

Section 11 Toxicological Information

HEALTH EFFECTS

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: May cause eye irritation but will not damage eye tissue.

Skin: May cause skin irritation after prolonged or repeated contact. It is likely to cause discomfort and effects such as moderate to severe itchiness, blistering and skin reddening.

Inhaled: High vapour concentrations may cause irritation to mucous membranes and the respiratory tract. Prolonged exposure to vapours can affect the central nervous system and result in headaches and dizziness or unconsciousness.

Chronic: No specific date is available for this product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995), nor in NOHSC's "List of Designated Hazardous Substances" (April 1999).

Section 12 Ecological Information

All data based on Kerosene

Ecotoxicity

Fish: Harmful 10<LC/EC/IC50<=100mg/1

Aquatic Invertebrates: Low toxicity LC/EC/IC50<=100mg/1

Algae: Harmful 10<LC/EC/IC50<=100mg/1

Microorganisms: Expected to be Harmful

10<LC/EC/IC50<=100mg/1

Persistence and degradability: Readily biodegradable. Degrades rapidly in air by photo-chemical means

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

Bioaccumulation: Has potential to bioaccumulate..

Section 13 Disposal Considerations

Disposal Methods and Containers: Absorb onto sand, vermiculite or other suitable absorbent material. Avoid using sawdust or other combustible 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.

Special Precautions for Landfill or Incineration: Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met. Empty containers may contain some residual product. Hazard warning labels are a guide to the safe handling of empty packages and should not be removed.



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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).

UN Number: 1268
UN Proper Shipping Name: Petroleum Products N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: None Allocated
Hazchem Code: 3[Y]

Land Transport (ADG):
UN Number: 1268
UN Proper Shipping Name: Petroleum Products N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: None Allocated
Hazchem Code: 3[Y]

Air Transport (ICAO/IATA):
UN Number: 1268
UN Proper Shipping Name: Petroleum Products N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: None Allocated
Hazchem Code: 3[Y]

Marine Transport (IMDG/IMO):
UN Number: 1268
UN Proper Shipping Name: Petroleum Products N.O.S
Class and Subsidiary Risk: 3
Packaging Group: III
Special Precaution for User: None Allocated
Hazchem Code: 3[Y]

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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