



Material Safety Data Sheet

IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron AUTOMATIC TRANSMISSION FLUSH SERVICE KIT**

Other Names: **AUTOMATIC TRANSMISSION FLUSH SERVICE KIT
FATFKIT – Service Kit
1 x FATF – Automatic Transmission Flush 325ml bottle
1 x FAPWS – Auto Trans & Power Steering Concentrate (Wide Spectrum) 50ml tube**

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

Automatic Transmission Flush - Helps remove varnish and sludge deposits from the transmission and power steering. Designed to clean all internal transmission and power steering components, to prepare them for addition of new transmission fluid.

Automatic Transmission & Power Steering Concentrate (Wide Spectrum) - This treatment helps extend the life of bearings, gears, seals and bands and protects against shock loading, wear, gumming and corrosion. Safe and suitable for most Power Steering.

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 8.00am – 5.00pm)
Fax: (618) 9202 7851
www.fortron.com.au

Emergency Telephone No: 0433 088 498



Automatic Transmission Flush

1. HAZARDS IDENTIFICATION:

**NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF THE NATIONAL
OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC)**

Hazard Symbol: Not applicable

Risk Phrase: Not applicable

Safety Phrase: Not applicable

2. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Highly refined Paraffinic Oil	64742-65-0	60-100%
Additives	Proprietary	0-40%

3. FIRST AID MEASURES:

Swallowed: If swallowed and person is conscious, give water or milk to drink. If swallowed DO NOT induce vomiting except on advice of medical personnel. If advice cannot be obtained, take person and container to nearest emergency treatment centre. Never give anything by mouth to an unconscious person.

For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 03 4747 000 (Not after May 2005) or 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. Seek medical attention if irritation persists.

Skin: In case of contact, remove contaminated clothing and wash before re-use. Wash skin thoroughly with water and soap.

Inhaled: If inhaled, remove to fresh air. If rapid recovery does not follow, seek medical attention.

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

Advice to Doctor: Treat symptomatically.



4. FIRE FIGHTING MEASURES:

Flashpoint:	> 250°C (COC)
Extinguishing Media:	Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing.
Unusual Fire & Explosion Hazards:	Combustible liquid, C2. Combustion Products: Carbon monoxide, carbon dioxide, and aldehydes and ketones, combustion products of nitrogen and sulphur.
Fire Fighting Precautions:	Self contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Hazchem Code:	None Allocated

5. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:	Eliminate all sources of ignition in the vicinity of the spill or released vapour. Stop the source of the leak or release. Clean up releases as soon as possible. Observing precautions in personal protection equipment. Contain liquid to prevent further contamination of soil, surface water or ground water.
Methods and Materials for Containment and Clean Up:-	Small Spills: Clean up small spills using appropriate techniques such as absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases. Large Spills: As listed above for Small Spills. Disposal: Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water. Do not allow to enter drains, sewers or water courses – inform the local authorities if this occurs.

6. HANDLING AND STORAGE:

Combustible Liquid, C2.	
Precautions for Safe Handling:	Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure should be selected.
Conditions for Safe Storage:	Classified as a Class C2 combustible liquid for storage and handling purposes. Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use.

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.





7. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards: Worksafe Australia has assigned the following exposure standards for oil mists;

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Oil (as mists)		5		10

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: Use adequate ventilation to keep the airborne concentrations of this material below the WORKSAFE exposure standards for mineral oils mists. Local exhaust ventilation and/or enclosure of the process are preferred in these cases.

Personal Protective Equipment: Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:-

- Eye protection
- PVC gloves
- PVC apron and sleeves, or full PVC covering
- PVC or rubber boots

Where the concentration of vapour or mist is expected to approach the exposure limit, the following additional equipment is recommended:-

- Short elevated exposures, eg spillage – goggles and correct respiratory protection should be worn.
- NB – If the vapour/mist concentrations exceed the exposure limit by more than 10 times, air supplied apparatus should be used.
- For prolonged elevated exposures – full face air supplied or self contained breathing apparatus should be worn.

Contamination : If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.
Observe good personal hygiene.





8. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Red liquid
Odour:	
pH:	Not applicable
Vapour Pressure:	Not applicable
Vapour Density:	Not available
Boiling Point:	Not applicable
Melting Point:	Not available
Solubility in Water:	Insoluble
Specific Gravity:	0.866
Flashpoint:	> 250°C (COC)
Flammability Limits:	LEL Not applicable UEL Not applicable
Viscosity:	34.5 cSt @ 40°C

9. STABILITY AND REACTIVITY:

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to Avoid:	Combustible substance. Remove all sources of ignition, heat and naked flames.
Incompatible Materials:	Avoid oxidizing agents.
Hazardous Decomposition Products:	Under fire conditions: Carbon monoxide, carbon dioxide, and aldehydes and ketones, combustion products of nitrogen and sulphur.
Hazardous Reactions:	Polymerisation – Will not occur.

10. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Not expected to be acutely toxic by ingestion. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhoea may occur.
Eye:	Not expected to cause eye irritation.
Skin:	Not expected to be irritating to the skin. May cause skin discolouration following prolonged or repeated contact.
Inhaled:	The vapour/mist may irritate the upper respiratory tract.
Chronic:	Prolonged or repeated skin contact may cause dermatitis.



10. TOXICOLOGICAL INFORMATION: - continued

Toxicology: Long term animal experiments have shown that any health risks are associated with the level of aromatic and polycyclic constituents in the product. These constituents are removed during the manufacturing process to a level at which no health risks are expected as a result of normal handling.

11. ECOLOGICAL INFORMATION:

Avoid contaminating waterways.

Ecotoxicity: No information is available on this product.

Persistence and Degradability: No information is available on this product.

Mobility: No information is available on this product.

12. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers: Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or water courses – inform the local authorities if this occurs.

Special Precautions for Landfill or Incineration: No special precautions required for product.

13. TRANSPORT INFORMATION:

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and Subsidiary Risk: None Allocated

Packaging Group: None Allocated

Special Precaution for User: None Allocated

Hazchem Code: None Allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road or Rail.

Land Transport (ADG):
Proper Shipping Name: Product is not regulated during transportation.

Air Transport (ICAO/IATA):
Proper Shipping Name: Product is not regulated during transportation.

Marine Transport (IMDG/IMO):
Proper Shipping Name: Product is not regulated during transportation.





14. REGULATORY INFORMATION:

Statement of Hazardous Nature: Not classified as Hazardous according to the criteria of National Occupational Health and Safety Commission (NOHSC)

Hazard Symbol: Not applicable

Risk Phrase: Not applicable

Safety Phrase: Not applicable

Auto Trans & Power Steering Concentrate (Wide Spectrum)

1. HAZARDS IDENTIFICATION:

HAZARDOUS CLASSIFICATION: The product is classified as non-hazardous according to the criteria of Safe Work Australia (formerly the Australian Safety and Compensation Council (ASCC), formerly NOHSC). This product is a non-dangerous good according to the Australian Dangerous Goods Code.

RISK PHRASE(S):

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: May cause sensitisation by skin contact.

TERATOGENICITY: No teratogenic effects known.

OTHER INFORMATION: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL CHARACTERISTICS: Liquid

INGREDIENTS:-

CHEMICAL ENTITY:

	CAS No.	PROPORTION
Hydro Refined Mineral Oil	None Allocated	≤ 30 – 50%
Methacrylate polymer	None Allocated	≤ 5 – 18%
Chemical Dispersant	N/A	≤ 4 – 16%
Alkane Amine	None Allocated	≤ 0.4 max
Phenolic Alkane	Proprietary	≤ 0.2 max
Ingredients determined not to be hazardous	Mixture	Up to 100%



3. FIRST AID MEASURES:

HEALTH EFFECTS

SWALLOWED:	If a large quantity is ingested seek immediate medical attention. Give water to drink. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.
EYE:	Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
SKIN:	Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. High pressure injection through the skin requires URGENT medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material).
INHALED:	Remove victim from exposure to fresh air – avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.
FIRST AID FACILITIES:	Normal washroom facilities are generally suitable. Ensure an eye wash station and safety shower is available and ready for use.
ADVICE TO DOCTOR:	Treat symptomatically.
OTHER INFORMATION:	Keep water and mild soap near work site.

4. FIRE FIGHTING MEASURES:

FIRE/EXPLOSION HAZARD

HAZARDS OF USE/STORAGE:	Product is a C2 combustible liquid according to AS 1940. This product is combustible if preheated.
HAZARDS FROM COMBUSTION PRODUCTS:	Combustion products may include: oxides of carbon, nitrogen and sulphur, a complex mixture of airborne unidentified organic and inorganic solid and liquid particulates.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to do, remove containers from path of fire. Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.
PRECAUTION:	Water may cause splattering.
SUITABLE EXTINGUISHING MEDIA:	Use foam, carbon dioxide or dry chemical.
PROTECTIVE MEASURES:	Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of combustion.
REACTIVITY:	May react with strong oxidising agents.



5. ACCIDENTAL RELEASE MEASURES:

SPILLS & DISPOSAL:

Slippery when spilt. Avoid accidents, clean up immediately.
CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less): Absorb or contain liquid with sand, earth or spill control material. Shovel up using non-sparking tools and place in a sound labelled sealable container for subsequent safe disposal. Place leaking containers in a sound labelled drum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.
CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L): Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.
PERSONAL PRECAUTIONS: Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breath vapours. Ventilate contaminated area thoroughly. Dispose of according to local regulations.

OTHER INFORMATION:

PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable container. Scrub contaminated area with detergent and water using a stiff brush. Pick up liquid with additional absorbent material and place in a sound labelled disposable container. Prevent contamination of groundwater or surface water.

6. HANDLING AND STORAGE:

PRECAUTIONS FOR SAFE HANDLING:

When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. Ensure high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking smoking or using the toilet.

SAFE STORAGE CONDITIONS:

Keep containers closed at all times. Store in a cool place out of direct sunlight. Store away from oxidising agents. Check containers regularly for leaks.

CORROSIVENESS:

Not corrosive.

STORAGE REGULATIONS:

Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use.
Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.



7. EXPOSURE CONTROLS/PERSONAL PROTECTION:

NATIONAL EXPOSURE STANDARDS:	No exposure standard has been established for this product. NOHSC Exposure Standard: Oil mists – time weighted average (TWA) 5 mg/m ³ is recommended.
OTHER EXPOSURE INFORMATION:	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).
ENGINEERING CONTROLS:	Maintain concentration below recommended exposure limit. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or the Manufacturer's recommended exposure standard.
RESPIRATORY PROTECTION:	A respirator is not normally required. Airborne concentrations should be kept at lowest level possible. If vapours, mists or dusts are generated and the recommended exposure limit for the product is exceeded, use appropriate AS/NZS 1715/1716 approved half –face filter respirator suitable for organic vapours or air supplied respirator are worn. Air supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown
EYE PROTECTION:	Safety glasses, goggles or face shield as appropriate.
HAND PROTECTION:	PVC gloves.
FOOTWEAR:	Enclosed footwear.
BODY PROTECTION:	Overalls or similar protective apparel.
HYGIENE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.
SPECIAL PROTECTIVE MEASURES:	The product will not burn unless preheated. Isolate from sources of heat, naked flames or sparks.



8. PHYSICAL AND CHEMICAL PROPERTIES:

FORM:	Liquid
APPEARANCE:	Clear and bright liquid.
COLOUR:	Red / Brown
ODOUR:	Mild Petroleum
MELTING POINT:	Less than 0°C
BOILING POINT:	Greater than 300°C
DENSITY @ 15°C (kg/L):	0.851 typical
SPECIFIC GRAVITY:	900 @ 15.6 / 15.6°C
FLASHPOINT (ASTM D-93), Closed Cup:	130°C
FLAMMABILITY LIMITS -LOWER:	Approximately 1.5%
FLAMMABILITY LIMITS -UPPER:	Approximately 6.0%
FLAMMABILITY:	Combustible Liquid C2 according to AS 1940.
SOLUBILITY IN WATER:	Not soluble.
SOLUBILITY IN ORGANIC SOLVENTS:	Soluble in petroleum solvents.
VAPOUR PRESSURE:	Less than 0.1 kPa
VAPOUR DENSITY (Air = 1):	Greater than 2.0
VISCOSITY @ 40 °C(mm ² /s):	Approximately 34
EVAPORATION RATE:	Less than 1 (n-butyl acetate = 1)
AUTO-IGNITION TEMPERATURE:	Greater than 250°C
EXPLOSION PROPERTIES:	Not considered an explosion risk under normal conditions of use.
OTHER INFORMATION:	These physical data and other properties do not constitute a specification.

9. STABILITY AND REACTIVITY:

CHEMICAL STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Heat, direct sunlight, open flames or other sources of ignition.
INCOMPATIBLE MATERIALS:	Strong oxidising agents.
HAZARDOUS REACTIONS:	Will react with strong oxidising agents.
HAZARDOUS POLYMERISATION:	Will not occur.



10. TOXICOLOGICAL INFORMATION:

TOXICOLOGY INFORMATION:	This product contains petroleum base oils, which may be refined by various processes including severe solvent extraction, hydro cracking and hydro treating. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. Oral LD50 ({{UDO1}}):{{UDO2}} mg/kg.
INHALATION:	Inhalation of mists or aerosols can produce respiratory irritation.
INGESTION:	May cause mild irritation of the mouth, throat and stomach with nausea and mild diarrhoea. Large amounts can cause vomiting which can lead to aspiration of vomited material into the lungs.
SKIN:	Will have a de-fatting effect on the skin. Contact with skin may result in irritation and sensitisation.
EYE:	May cause watering of eyes.
REPRODUCTIVE TOXICITY:	Product is not a known to have damaging reproductive effects.
CHRONIC EFFECTS:	Prolonged or repeated exposure may result in irritation, with the possibility of dermatitis.
MUTAGENICITY:	Mutagenic effects not known.
CARCINOGENICITY:	Product is not a known carcinogen.

11. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION:	Leaching and penetration through soils is generally regarded as resulting in long-term persistence. Fresh or used product may be harmful to aquatic life. Do not allow material to enter drains or watercourses.
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12. DISPOSAL CONSIDERATIONS:

DISPOSAL CONSIDERATIONS:	Dispose of according to federal, E.P.A. and state regulations.
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13. TRANSPORT INFORMATION:

TRANSPORT INFORMATION:	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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14. REGULATORY INFORMATION:

POISON SCHEDULE:	Not scheduled.
PACKING & LABELLING:	No special packaging or labelling requirements.
AUSTRALIAN INVENTORY STATUS:	All components are listed or exempted.

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15. FURTHER INFORMATION:

LITERATURE REFERENCES:

- * NOHSC:2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- * NOHSC: 10005 List of Designated Hazardous Substances.
- * NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- * NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- * NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
- * NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- * SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- * ADG: Australian Dangerous Goods Code
- * MSDS of component materials.

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