



PRODUCT SAFETY DATA SHEET

1. Identification of the Substance/Preparation & Supplier.

Product Name: Engine Flush Concentrate T1454
Product Type: Engine Flush Additive
Supplier: Fortron International, 1 Westminster Way, Oxford OX2 0PZ
Emergency information: Emergency phone number (Office hours only): +61 8 92027800
Fax no: +61 8 9202 7851

2. Hazards 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.

3. Composition/Information on Ingredients.

Hazardous component:	EINECS	Cas No.	Index	Risk Phrases:	Conc:
Aliphatic Hydrocarbon	232-366-4	8008-20-6	F, N	R10, R65, R66, R51/53	50-80%

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

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.**

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. Product may decompose if involved in a fire, releasing toxic and irritating fumes of Hydrogen Chloride and small amounts of Phosgene and Chlorine.

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

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.

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 mild steel, stainless steel or polyethylene containers.

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

Specific Uses: To be used as an Engine Flush Additive.

8. Exposure Controls/Personal Protection.

Exposure limit values:

Ingredient Name		8hr TWA	15min STEL
Petroleum Distillates	WEL	5mg/m3	10mg/m3

EH40 guidance on exposure to mixed solvents.

Occupational exposure controls:

Respiratory Protection: CCROV, CCR with organic vapour cartridge. SA, supplied air respirator. SCBA, self contained breathing apparatus.

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.

9. Physical and Chemical Properties.

Appearance:	Clear Amber Fluid
Odour:	Solvent
Flash Point:	45°C typical
Flammability:	Flammable
Water Solubility:	Insoluble
Solubility in Organics:	Soluble in many
Freezing Point:	<0°C
Specific Gravity @ 20°C:	0.860 typical

10. Stability and Reactivity.

Conditions to Avoid: Protect against naked flames, hot surfaces and other high temperature sources.

Materials to Avoid: Strong oxidising agents, aluminium.

Hazardous Decomposition Products: Thermal decomposition can produce a variety of compounds including corrosive Hydrogen Chloride and toxic Phosgene. Product is stable under normal conditions.

11. Toxicological Information.

Eyes: Likely to cause irritation and stinging.

Skin: Prolonged or repeated contact may cause irritation and lead to de-fatting of the skin and/or dermatitis.

Inhalation: Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract, possible inflammation of the lungs. May cause nausea, vomiting, dizziness.

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

12. Ecological Information.

Eco-toxicity: Toxic to 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. Will leach into soil. Avoid transfer into the environment.

Persistence and Degradability: Expected to biodegrade slowly.

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

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.

14. Transport Information.

UN Label:



Land Transport ADR/RID:

UN No: 1993
Class: 3
Proper Shipping Name: Flammable Liquid, NOS (Contains Petroleum Distillate)
Packing Group: III
HI No: 30
ADR Classification Code: F1
Limited Quantities Code: LQ7
Tunnel Restriction Code: (D/E)

Maritime Transport IMDG:

UN No: 1993
Class: 3
Proper Shipping Name: Flammable Liquid, NOS (Contains Petroleum Distillate)
Packing Group: III
Marine Pollutant: Yes
EmS No: F-E, S-E

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
N

Harmful
Dangerous for the Environment

Risk Phrases:

R10: Flammable
R65: Harmful: may cause lung damage if swallowed
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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.

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.

16. Other Information.

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
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

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

Recommended Restrictions on Use:

Department issuing data specification sheet: Health and Safety Department

***Date compared to the previous version altered.**

Legal Disclaimer:

The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.