



SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name: ENGINE FLUSH
Proper Shipping Name
Recommended use: Motor Flush Formulation
Company Details Marketing Chemicals Ltd
Address: 7/343 Church Street , Penrose,
Auckland. New Zealand
Telephone: +64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]
Fax: +64 9 634 3864
Emergency Telephone: +64 274 736008(24 hours)
National Poison Centre(24 hours): 0800 POISON [764 766]
Date of preparation 18 October 2008

Section 2: Hazard Identification



WARNING:

- Combustible liquid.
- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause damage to organs through prolonged or repeated exposure
- May toxic to aquatic life.

HSNO Approval Number: Group Standard HSR002525

Prevention:

- Keep out of reach of children.
- Read label before use.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Wear protective gloves and eye/face protection.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe fume/gas/vapours/spray.
- Avoid release to the environment.
- Take precautionary measures against static discharge.

Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
Diesel/ Oil	>60.0	68476-30-2
Hydrocarbon Solvents	10.0 – 60.0	64742-94-5

Detergents and Wetting Agents	<10.0	9016-45-9
Pine Derived Solvent/Alcohol	<10.0	8002-09-3

Section 4: First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.
Skin:	Wash exposed area with mild soap and water. Get medical attention if irritation develops or persists.
Ingestion:	Do not Induce Vomiting. Get immediate medical attention.
Inhalation:	Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention.
NOTES TO PHYSICIAN:	Exposure to high concentrations of this material (e.g., in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

For Further Information Telephone (24 Hours)The National Poison Centre: 0800 Poison [764 766]

Section 5: Fire Fighting Measures

Flash Point:	>60°Celsius
Auto ignition Temperature:	
Flammable Limits in Air % by Volume:	Not available
Extinguishing Media:	Dry chemical, foam, or carbon dioxide.
Fire Fighting Instructions:	Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only.
Unusual Fire and Explosion Hazards:	Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect, away from those fumes.

Section 6: Accidental Release Measures

SMALL SPILL: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

LARGE SPILL: Contain material as described above and call the local fire or police department for immediate emergency assistance.

Section 7: Handling And Storage

Handling	Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapours can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.
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Storage: Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

Eye / Face Protection: Wear safety glasses with side shields or goggles when handling this material.

Body Protection: PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.

Respiratory Protection: Use NIOSH/MSHA approved respirators.

Exposure Limits: Not available

Section 9: Physical And Chemical Properties

Appearance Clear Colourless Liquid

Odour Solvent odour, pine fragrance.

Specific Gravity 0.84

Vapour Pressure Not available

Vapour Density Not available

Solubility in water Readily emulsifies

% Volatiles Not available

Evaporation Rate Not available

Flash Point >60° C

Section 10: Stability And Reactivity

Stability of the Substance: Stable

Conditions to avoid: Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Oxides of Carbon when burned.

Conditions Contributing to Hazardous Polymerization Will not occur

Section 11: Toxicological Information

Eyes: SPECIES: Rabbit
RESULT: The test substance was applied at 0.1 ml to the conjunctival sac of one eye of each of 6 rabbits (sex not reported) Mild iritis was observed in most eyes at 1 hour; slight corneal opacity was observed in 2 eyes at 24 hours, and 1 eye at 48 hours. Moderate conjunctival irritation was present in most eyes at 1 and 24 hours, but was slight at 48 and 72 hours. All eyes were normal by 7 days.

Skin: SPECIES: Rabbit :RESULT: Moderate

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Ingestion: SPECIES: Rat; ENDPOINT: LD50 ;VALUE: 3280 mg/kg
Inhalation: SPECIES: Rat; ENDPOINT: LC50; VALUE: 18 g/m³/4h = 18 mg/L/4h

Section 12: Ecological Information

No data available for this product

Section 13: Disposal Considerations

Dispose through Licensed Disposal Company

Section 14: Transport Information

Not regulated as hazardous for transportation

UN No:

Proper Shipping Name:

Dangerous Goods Class:

Subsidiary risk

Packing Group:

Hazchem Code:

Section 15: Regulatory Information

HSNO Approval No: HSR002525
Group Standard: Cleaning Products(Combustible)
HSNO Classes: 3.1D, 6.1E, 6.3B, 6.4A, 6.9B, 9.1C

Section 16: Other Information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]
New Zealand Emergency Services: 111

For General Information: John Crombie, Manager, Marketing Chemicals Ltd,
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Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

End of Safety Data Sheet.

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