

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: ENGINE FLUSH

Product Code: EF 20

Use: Automotive Engine Flush

Company: **ADVANCED AUTOLOGIC Pty Ltd.**,
ACN 008 993 833

Address PO Box 205 Byford WA, 6122
Telephone No: (08) 9526 2678
Fax No: (08) 9526 2680
Emergency No. (08) 9526 2678 (All Hours)

SECTION 2: HAZARDS IDENTIFICATION

Hazardous according to criteria of WorkSafe Australia

Hazard Category Xn - Harmful

Risk Phrases

R40 Possible risks of irreversible effects.
R52 Harmful to aquatic organisms
R53 May cause long term adverse effects to the aquatic environment

Safety Phrases

S2 Keep out of the reach of children.
S23 Do not breathe vapour
S36/37 Wear suitable protective clothing and gloves

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

All products are formulated to be non-hazardous to health and environment, wherever possible. All hazardous sub-stances as defined by the NOHSC Code 1008 are listed by CAS No. Other major ingredients that are determined to be non-hazardous are listed without a CAS No.

Chemical name CAS No. Proportion

Mineral Oil		>10%
Trichloroethylene	79-01-6	<5%
Proprietary non-Hazardous Ingredients		<85%

SECTION 4: FIRST AID MEASURES

Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre. Phone 13 1126. Do **NOT** induce vomiting. Give plenty of water and seek medical attention. Avoid giving milk, oils or alcohol.

Eye: Hold eyelids open and immediately flush with water continuously for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing and wash before use. Flush affected area with plenty of soapy water.

Inhaled: Remove from contaminated area. Apply artificial respiration if not breathing.

First Aid Facilities: Eyewash. Deluge shower

Advice to Doctor: Treat symptomatically, similar to mixture of kerosene & trichloroethylene

SECTION 5: FIRE FIGHTING MEASURES

Combustion decomposition products of carbon dioxide and carbon monoxide may be evolved. Use breathing apparatus. Keep containers cool by spraying with water to prevent rupture. Use foam, carbon dioxide or dry chemical fire extinguisher.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Shut off all possible sources of ignition. Remove any naked lights and strong heat sources. DO NOT SMOKE. Absorb with sand or other absorbent material. For large spills notify Emergency Services.

SECTION 7: HANDLING AND STORAGE

Store in a cool, well-ventilated area away from any foodstuffs, oxidising agents and ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: Exposure limits for trichloroethylene are

TWA:50ppm (270mg/m3)
STEL:200ppm (1080mg/m3)

Engineering Controls: Extra ventilation may be required.

Personal Protection:

Always wash hands before smoking, eating, drinking or using the toilet. Use of barrier cream is recommended. Avoid contact with the skin and breathing in vapours or mist. Follow normal industrial personal protection practises. The use of additional protective clothing depends on the degree and nature of exposure. The following personal protective clothing should be readily available:

1. Splash proof chemical safety goggles or face shield
2. Neoprene or nitrile rubber gloves
3. Chemical resistant rubber boots
4. PVC or leather apron and sleeves or PVC overalls.

Details on the use and selection of respiratory protection can be found in Australian Standard AS 1715. Where the concentration of vapour or mist approaches the exposure

limit, the following personal protection equipment is recommended

1. For short elevated exposure, use filter respirator with correct organic vapour filter.
2. For prolonged elevated exposures, use air supplied respirator or self contained breathing apparatus (SCBA)

Flammability: Combustible. Isolate from sources of heat, flame or sparks.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown oily Liquid
Boiling Point:	87-220°C
Vapour Pressure:	Not determined
Specific Gravity:	0.85
Flashpoint:	Not Flammable.
Flammability Limits:	Not determined
Solubility in Water:	Immiscible
Corrosiveness:	Non-corrosive
pH (1% solution):	Neutral

SECTION 10: STABILITY AND REACTIVITY

Stable.

SECTION 11: TOXICOLOGICAL INFORMATION

Health Effects

ACUTE:

SWALLOWED: May result in nausea, vomiting, headaches, dizziness, gastrointestinal irritation, and central nervous system depression.

EYE: Vapour and liquid are mild to moderate irritants. Permanent damage is unlikely.

SKIN: May be slightly irritating to the skin. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. The liquid can be absorbed through the skin.

INHALED: High concentrations of vapour, which are unlikely to occur can lead to irritation of the mucous membranes and respiratory tract, headaches, dizziness and possible nausea.

CHRONIC: Evidence from animal tests indicates that repeated or prolonged exposure to high concentrations of this chemical could result in adverse effects on the liver and kidney

SECTION 12: ECOLOGICAL INFORMATION

Do not dispose to environment. Refer Section 13.

SECTION 13: DISPOSAL CONSIDERATIONS

Recycle unwanted product or dispose via a waste management contractor.

SECTION 14: TRANSPORT INFORMATION

UN Number:	1992
Dangerous Goods Class	6
Subsidiary Risk:	None allocated
Hazchem Code:	3WE
Packing Group	III
EPG	6A1
Poisons Schedule:	S6

SECTION 15: REGULATORY INFORMATION

This product is widely used by industry and is not subject to any special regulatory requirements.

SECTION 16: OTHER INFORMATION

This MSDS is valid for five years from date of issue but readers should contact the manufacturer to ensure that this is the latest issue. As per the WorkSafe Guidance Note NOHSC 3017 (Health Risk Assessment) each user should review the information in the specific context of the intended application.

Date of Issue:	18/01/2020
Formula Code:	EF 20
Contact Point:	Emergency Co-ordinator Mr Michael Croonen (08) 9526 2678