

# SAFETY DATA SHEET

## PG417A – ENGINE FLUSH 350ml

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** PG417A– ENGINE FLUSH 350ml  
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition of the preparation: Mixture of mineral base oils (PCA-content < 3 % - IP 346) and additives.

Substance name	Value(s)	CAS-nr.	EINECS-nr.	EC-Index	Classification
Lubricating oils (petroleum), C20-50, : hydrotreated neutral oil-based	95 - 98 %	72623-87-1	276-738-4	649-483-00-5	

Other information: See § 16 for full text of all R- phrases.

### 3. HAZARDS IDENTIFICATION

Classification of the preparation: Not classified as dangerous under EC criteria.  
 Physico-chemical hazards: Not expected to be a fire/explosion hazard under normal conditions of use.  
 Human health hazards: None under normal conditions.  
 Environmental hazards: No specific risk for the environment.  
 Symptoms relating to the uses and:  
 Possible misuses of the preparation: None under normal conditions.  
 Other adverse hazards: During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. Avoid prolonged contact with used motor oil. Overexposure to oil mist may cause respiratory irritations. Oil mist deposited on surfaces may cause slip hazard.

### 4. FIRST AID MEASURES

First aid:  
 - After inhalation: Assure fresh air breathing. If you feel unwell, seek medical advice.  
 - After contact with skin: Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Never use kerosene or gasoline for cleaning the skin.

- After contact with the eyes:	Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- After ingestion:	Do not induce vomiting. Seek medical attention immediately.
- After aspiration:	If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.
Note to physician:	The ingestion of lubricating oils is an unlikely event. No specific therapy is indicated in view of the very low toxicity of the base oil and other components. Treat with supportive measures as appropriate to the patient's condition.

## 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water fog. Carbon dioxide. Foam. Dry chemical product.
<b>Extinguishing media which shall not be used for safety reasons</b>	Do not use a heavy water stream.
<b>Special exposure hazards:</b>	Under fire conditions, hazardous fumes will be present.
<b>Special protective equipment for fire-fighters</b>	Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid all unnecessary exposure. Remove ignition sources. Equip clean-up crew with proper protection.
<b>Environmental precautions:</b>	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
<b>After spillage and/or leakage:</b>	Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.
<b>Other information:</b>	Spill area may be slippery.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	No naked lights. No smoking. Keep away from sources of ignition. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work
<b>Storage:</b>	Store in tightly closed, properly ventilated areas away from heat, sparks, open flame. Keep at temperature not exceeding 50°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values:	MAC - value TWA 8 hours for oil mist (mineral): 5 mg/m <sup>3</sup>
Occupational exposure controls:	
- Respiratory protection:	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- Hand protection:	In case of repeated or prolonged contact wear gloves.
- Eye protection:	Safety glasses.
- Skin protection:	Wear suitable protective clothing.
Environmental exposure controls:	Avoid release to the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Oily liquid.
<b>Colour:</b>	Yellow-brown.
<b>Odour:</b>	Light odour of petroleum.
<b>Density @ 15°C:</b>	881 kg/m <sup>3</sup>
<b>Solubility in water:</b>	Negligible.

## 10. STABILITY AND REACTIVITY

<b>Physico-chemical stability:</b>	Stable under normal conditions.
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<b>Hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Extremely high or low temperatures.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Not expected to be toxic.
<b>Sensitising (skin contact):</b>	No sensitization effects known.
<b>Carcinogenicity:</b>	Not expected to be carcinogenetic.
<b>Mutagenicity:</b>	Not expected to be mutagenetic.
<b>Reproductive toxicity:</b>	Not expected to be toxic.
<b>Other information:</b>	No data available

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Not expected to be toxic.
<b>Mobility:</b>	Not determined.
<b>Persistence and degradability:</b>	Not readily biodegradable.
<b>Bioaccumulative potential:</b>	Not determined.
<b>Other adverse effects:</b>	None under normal conditions.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	Dispose in a safe manner in accordance with local/national regulations.
<b>Waste-disposal procedures:</b>	See Directive 2001/118/EC
<b>Industrial waste number (EURAL):</b>	13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils. 15 01 10 - packaging containing residues of or contaminated by dangerous Substances

## 14. TRANSPORT INFORMATION

<b>General information:</b>	Not regulated.
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## 15. REGULATORY INFORMATION

<b>Symbol(s):</b>	None.
<b>R-Phrase(s):</b>	None.
<b>S-Phrase(s):</b>	S29/35: Do not empty into drains; dispose of this material and its container in a safe way.
<b>Special Labelling:</b>	Material Safety Data Sheet available for professional users on request.
<b>National Regulations Germany:</b>	Water Hazard Class 1: low hazard to waters (acc. VwVwS) Technical Instructions on Air Quality Control 3.1.7.III

## 16. OTHER INFORMATION

<b>Further information:</b>	R&D
<b>Revision Indicators:</b>	None
<b>Recommended restrictions on use:</b>	See product bulletin for detailed information.
<b>Sources of key data used:</b>	Concawe Report 01/53 Concawe Report 01/54 Concawe Report 05/87  Regulation (EC) No 1907/2006 of the European Parliament and of the Council

The contents and format of this MSDS are in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

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