

# Material Safety Data Sheet

Effective: 1<sup>st</sup> June 2005

## 1.0 IDENTIFICATION

- 1.1 Product Name : PETROPLUS FUEL SAVER
- 1.2 Manufacturer : CITIDIRECT SDN BHD
- 1.3 Telephone No : +60(3) 92829663
- 1.4 Fax No: : +60(3) 92829662
- 1.5: Emergency No : +60(19)2235236

Recommended Use: As a Fuel Additive

## 2.0 COMPOSITION/IMFORMATION OF INGREDIENTS

- 2.1 Chemical composition:
  - Hydrocarbon solvent - less than 10%
  - Surfactant - less than 5%
  - Polyether - more than 80%

## 3.0 HAZARDA INDENTIFICATION

- 3.1 Nature of Hazard - May cause lung damage if inhaled and swallowed
- 3.2 Hazard Symbol - R65

## 4.0 FIRST AID MEASURE

- 4.1 Eye contact: Irrigate eye with clean water of 15 minutes, seek medical advices, if effect persists.
- 4.2 Skin Contact : Wash off with water
- 4.3 Inhalation: Remove the victim to open air. Keep at rest. Give artificial respiration, if necessary. Get medical attention, if necessary .
- 4.4 Ingestion: If swallowed, do not induce vomiting. Keep at rest. Get medical attention.

## 5.0 FIRE FIGHTING MEASURES

- 5.1 Extinguishing media. Water spray, Carbon dioxide, foam, Dry Chemical.
- 5.2 Unsuitable extinguishing media. None known.
- 5.3 Unusual fire and explosion hazard. None known.

## 6.0 ACCIDENTAL RELEASE MEASURES

- 6.1 Contain spilled liquid with sand or earth and dispose off in accordance with local authority regulations. Wash site of spillage with water.

## 7.0 HANDLING AND STORAGE

- 7.1 Storage. Store in cool and ventilated place.
- 7.2 Handling. Keep contained closed. Keep away from direct sunlight.

## **8.0 EXPOSURE CONTROLS/ PERSONAL PROTECTION**

- 8.1 Good manufacturing practice should be used at all time.
- 8.2 Hand protection: Gloves recommended
- 8.3 Eye protection: Gloves recommended

## **9.0 PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Appearance: Off white liquid, emulsion
- 9.2 Odor: Aromatic
- 9.3 pH 1%: 7.0 – 8.0
- 9.4 Viscosity spindle 4rpm 10:60 cps  $\pm$  5.0
- 9.5 Specific gravity: 0.8900  $\pm$  0.1
- 9.6 Solubility : Completely soluble in water

## **10.0 STABILITY AND REACTIVITY**

- 10.1 Conditions to avoid. Avoid direct sunlight.
- 10.2 Materials to avoid. Strong oxidizing agents.
- 10.3 Polymerise. None
- 10.4 Stability. The product may separate on standing

## **11.0 TOXICOLOGICAL INFORMATION**

- 11.1 Skin toxicity: Prolonged contact may defeat and dry the skin.
- 11.2 Eye toxicity: May cause irritation
- 11.3 Ingestion toxicity: May feel dizziness
- 11.4 Inhalation toxicity: May feel dizziness

## **12.0 DISPOSAL CONSIDERATION**

- 12.1 Method: Dispose in accordance with local regulation.

## **13.0 TRANSPORT INFORMATION**

- 13.1 Proper shipping name: hydrocarbon  
Class: 3  
PG: 11

## **14.0 ECOLOGICAL INFORMATION**

- 14.1 Biodegradability: Biodegradable
- 14.2 Aquatic toxicity: None known

## **15.0 REGULATORY INFORMATION**

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