

# SECTION 1: IDENTIFICATION

1.1	GHS Product identifier:	UNITED ECO-P SAE 0W-16 API SP RC/ILSAC GF-6 (FULLY SYNTHETIC)
		Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C
	CAS:	64742-54-7
1.2	Recommended use of the chemical	and restrictions on use:
	Relevant uses: Lubricant	
	Uses advised against: All uses not speci	fied in this section or in section 7.3
1.3	Manufacturer's or supplier's detail	S:
	UNITED OIL COMPANY PTE LTD 14 Tuas Drive 2, Singapore 638647 638647 Singapore - Singapore - Singapor Phone.: +65 6861 1157 - Fax: +65 686 enquiry@united-oil.com http://www.united-oil.com/default.aspx	1 3101 ?uc=14
1.4	<b>Emergency phone number:</b> +65 68	611157
SECT	TION 2: HAZARDS IDENTIFICATION	

# 2.1 Classification of the substance or mixture:

# SS 586:Part 2:2014:

The product is not classified as dangerous according to SS 586 : Part 2 : 2014

- 2.2 GHS label elements, including precautionary statements: SS 586:Part 2:2014: None
- 2.3 Other hazards which do not result in classification:

Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances:

Chemical description: Mixture based on hydrocarbons and additives

## Components:

In accordance with SS 586:Part 3:2008 (2014) , the product contains:

		Chemical name/Classification	Concentration
CAC: (47	42 54 7	Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C	75 <100 %
CAS: 647	64742-54-7	Asp. Tox. 1: H304 - Danger 😵	75 - <100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### 3.2 Mixtures:

Non-applicable

# SECTION 4: FIRST-AID MEASURES

### 4.1 Description of necessary first-aid measures:

Consult a doctor in case of discomfort with this Safety data Sheet.

## By inhalation:

In case of symptoms, move the person affected into fresh air.

### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet **By eye contact:** 



## SECTION 4: FIRST-AID MEASURES (continued)

Rinse with water until the product has been eliminated. In case of problems, consult a doctor with the SDS of this product.

# By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

# 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

# SECTION 5: FIRE-FIGHTING MEASURES

## 5.1 Suitable extinguishing media:

Product is non-flammable, low risk of fire by the inflammability characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

## 5.2 Specific hazards arising from the chemical:

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

# 5.3 Special protective actions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task.

# 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

## 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

### Safety data sheet According to SS 586:Part 3:2008 (2014)



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# SECTION 7: HANDLING AND STORAGE (continued)

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

## 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

# 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters/Occupational exposure limits:

Substances whose occupational exposure limits have to be monitored in the workplace according to Workplace Safety and Health (General Provisions) Regulations

There are no Permissible exposure levels for the substances contained in the product

### 8.2 Appropriate engineering control measures:

A.- Individual protection measures, such as personal protective equipment (PPE)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

### C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves
- Ocular and facial	protection	

D.- Ocular and facial protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

### Safety data sheet According to SS 586:Part 3:2008 (2014)



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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

### F.- Additional emergency measures

It is not necessary to take additional emergency measures.

### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### Information on basic physical and chemical properties: 9.1 For complete information see the product datasheet. **Appearance:** Physical state at 20 °C: Liquid Appearance: Not available Color: Not available Odor: Not available Odour threshold: Non-applicable \* Volatility: Non-applicable \* Boiling point at atmospheric pressure: Vapour pressure at 20 °C: Non-applicable \* Vapour pressure at 50 °C: Non-applicable \* Non-applicable \* Evaporation rate at 20 °C: Product description: Density at 20 °C: 867.7 kg/m<sup>3</sup> Relative density at 20 °C: 0.868 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: ~35.2 cSt Kinematic viscosity at 100 °C: ~6.9 cSt Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Non-applicable \* Explosive properties: Oxidising properties: Non-applicable \* Flammability: Flash Point: >200 °C Flammability (solid, gas): Non-applicable \* Autoignition temperature: Non-applicable \* Lower flammability limit: Non-applicable \* Upper flammability limit: Non-applicable \* **Explosive:** \*Not relevant due to the nature of the product, not providing information property of its hazards.



SEC	TION 9: PHYSICAL AND CHEMICAL PRO	PERTIES (continued)	
Lower explosive limit: Non-applicable *			
Upper explosive limit: Non-applicable *			
9.2 Other information:			
	Surface tension at 20 °C: Non-applicable *		
	Non-applicable *		
	viding information property of its hazards.		

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Not applicable Not applicable Not applicable Not applicable Not applicable	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

### **10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

LD50 oral > 5000 mg/kg (rat)

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met
  - Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met
  - Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:



# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Respiratory: Based on available data, the classification criteria are not met
- Cutaneous: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
    Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Assisting logged
- H- Aspiration hazard:

Based on available data, the classification criteria are not met

### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C	LD50 oral	>5000 mg/kg	
CAS: 64742-54-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	

# SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Not available

- **12.2 Persistence and degradability:** Not available
- **12.3 Bioaccumulative potential:** 
  - Not available

**12.4 Mobility in soil:** Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1** Disposal methods:

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

# Regulations related to waste management:

Legislation related to waste management:

Environmental Public Health (Toxic Industrial Waste) Regulations. Hazardous Waste (Control of Export, Import and Transit) Act.

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:



SECTION 14: T	RANSPORT INFORMATION (	continued)
With rega	ard to SS 586-1 (2014):	
14.2	UN number: UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable Non-applicable
14.5	Labels: Packing group, if applicable: Environmental hazard: Special precautions for user	Non-applicable Non-applicable No
	Physico-Chemical properties: Transport in bulk according to Annex II of MARPOL	see section 9 Non-applicable
Transpo	73/78 and the IBC Code: rt of dangerous goods by sea:	
	ard to IMDG 39-18:	
14.2	UN number: UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable Non-applicable
14.5	Packing group, if applicable: Marine pollutant: Special precautions for user	
14.7	Physico-Chemical properties: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	see section 9 Non-applicable
Transpo	rt of dangerous goods by air:	
-	ard to IATA/ICAO 2020:	
14.2	UN number: UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable Non-applicable
14.5	Packing group, if applicable: Environmental hazard:	Non-applicable No
14.6	<b>Special precautions for user</b> Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable

# SECTION 15: REGULATORY INFORMATION

## **15.1** Safety, health and environmental regulations specific for the product in question:

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

### Other legislation:

Environmental Protection and Management (Hazardous Substances) Regulations. Environmental Protection and Management Act. Environmental Public Health Act. Fire Safety Act. Workplace Safety and Health Act. Workplace Safety and Health (General Provisions) Regulations.



# SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with SS 586Part 3:2008 (2014) - Specification for hazard communication for hazardous chemicals and dangerous goods - Part 3 : Preparation of safety data sheets (SDS).

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

### SS 586:Part 2:2014:

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

http://www.nea.gov.sg

### Abbreviations and acronyms:

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Dose 50 CC50: Effective concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.