

### SECTION 1: IDENTIFICATION

| 1.1 | GHS Product identifier:  |
|-----|--------------------------|
|     | GIIS FIOUUCLIUEIILIIIEI. |

UNITED UNIMAR 540 SAE 50 TBN 40

### Other means of identification:

Non-applicable

1.2 Recommended use of the chemical and restrictions on use: Relevant uses: Lubricant

Uses advised against: All uses not specified in this section or in section 7.3

# **1.3** Manufacturer's or supplier's details:

UNITED OIL COMPANY PTE LTD 14 Tuas Drive 2, Singapore 638647 638647 Singapore - Singapore - Singapore Phone.: +65 6861 1157 - Fax: +65 6861 3101 enquiry@united-oil.com http://www.united-oil.com/default.aspx?uc=14

1.4 Emergency phone number: +65 68611157

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture:

### SS 586:Part 2:2014:

Classification of this product has been carried out in accordance with SS 586 : Part 2 : 2014

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Repr. 1B: Reproductive toxicity, Category 1B, H360

# 2.2 GHS label elements, including precautionary statements:

# SS 586:Part 2:2014:

Danger



### Hazard statements:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Repr. 1B: H360 - May damage fertility or the unborn child.

# **Precautionary statements:**

- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.
- P201: Obtain special instructions before use.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P391: Collect spillage.

P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.

# 2.3 Other hazards which do not result in classification:

Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

**Chemical description:** Mixture based on hydrocarbons and additives **Components:** 

components:

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



# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

|      | Identification | Chemical name/Classification   | Concentration |
|------|----------------|--|---------------|
| CAS: | 64742-54-7     | Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C   | 25 - <50 %    |
| CAS: | 74499-35-7     | Tetrapropenylphenol   Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Repr. 1B: H360; Skin Corr. 1C: H314 -   Danger | <1 %          |

# SECTION 4: FIRST-AID MEASURES

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

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

# By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

# By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

# 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:

### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

### Unsuitable extinguishing media:

Non-applicable

### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

# 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

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

# 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:

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)



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

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

| Pictogram                                    | PPE                               | Remarks  |  |
|--|-----------------------------------|--|--|
| Mandatory<br>respiratory tract<br>protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |  |
| Specific protection for the hands            |                                   |  |  |

C.- Specific protection for the hands

| Pictogram      | PPE                                       | Remarks  |
|----------------|---|--|
| Mandatory hand | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

### D.- Ocular and facial protection

| Pictogram                    | PPE         | Remarks  |
|------------------------------|-------------|--|
| Mandatory face<br>protection | Face shield | Clean daily and disinfect periodically according to the manufacturer´s instructions.<br>Use if there is a risk of splashing. |

E.- Bodily protection

| Pictogram PPE                         |  | Remarks   |  |
|---------------------------------------|--|---|--|
| Mandatory complete<br>body protection | Disposable clothing for protection against<br>chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |  |
| Mandatory foot<br>protection          | Safety footwear for protection against chemical<br>risk      | Replace boots at any sign of deterioration.   |  |

# Emergency measureStandardsEmergency measureStandardsImage: Constraint of the standardsANSI Z358-1<br/>ISO 3864-1:2011, ISO 3864-4:2011Image: Constraint of the standardsDIN 12 899<br/>ISO 3864-1:2011, ISO 3864-4:2011Image: Constraint of the standardsExpenses the standardsDIN 12 899<br/>ISO 3864-1:2011, ISO 3864-4:2011

# **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

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

\*Not relevant due to the nature of the product, not providing information property of its hazards.



| SECTI | ON 9: PHYSICAL AND CHEMICAL PROPERTIES                               | (continued)                     |
|-------|--|---------------------------------|
|       | Appearance:  |                                 |
|       | Physical state at 20 °C:   | Liquid                          |
|       | Appearance:  | Not available                   |
|       | Color:   | Not available                   |
|       | Odor:  | Not available                   |
|       | Odour threshold:   | Non-applicable *                |
|       | Volatility:  |                                 |
|       | Boiling point at atmospheric pressure:                               | Non-applicable *                |
|       | Vapour pressure at 20 °C:  | Non-applicable *                |
|       | Vapour pressure at 50 °C:  | Non-applicable *                |
|       | Evaporation rate at 20 °C:   | Non-applicable *                |
|       | Product description:   |                                 |
|       | Density at 20 °C:  | 891.7 kg/m³                     |
|       | Relative density at 20 °C:   | 0.892                           |
|       | Dynamic viscosity at 20 °C:  | Non-applicable *                |
|       | Kinematic viscosity at 20 °C:  | Non-applicable *                |
|       | Kinematic viscosity at 40 °C:  | ~216 cSt                        |
|       | Kinematic viscosity at 100 °C:                                       | ~19.2 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:  |                                 |
|       | Solubility properties:   | Non-applicable *                |
|       | Decomposition temperature:   | Non-applicable *                |
|       | Melting point/freezing point:  | Non-applicable *                |
|       | Explosive properties:  | Non-applicable *                |
|       | Oxidising properties:  | Non-applicable *                |
|       | Flammability:  |                                 |
|       | Flash Point:   | >200 °C                         |
|       | Heat of combustion:  | Non-applicable *                |
|       | Flammability (solid, gas):   | Non-applicable *                |
|       | Autoignition temperature:  | Non-applicable *                |
|       | Lower flammability limit:  | Non-applicable *                |
|       | Upper flammability limit:  | Non-applicable *                |
|       | Explosive:   |                                 |
|       | Lower explosive limit:   | Non-applicable *                |
|       | Upper explosive limit:   | Non-applicable *                |
| 9.2   | Other information:   |                                 |
|       | Surface tension at 20 °C:  | Non-applicable *                |
|       | Refraction index:  | Non-applicable *                |
|       | *Not relevant due to the nature of the product, not providing inform | nation property of its hazards. |

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:



# SECTION 10: STABILITY AND REACTIVITY (continued)

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:

| 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 | Precaution          | 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:

The experimental information related to the toxicological properties of the product itself is not available

### 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, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C (3); Residual oils (petroleum), hydrotreated (IP346 < 3 %, >20.5 cSt @ 40°C) (3)
  - Mutagenicity: 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.
  - Reproductive toxicity: May damage fertility or the unborn child
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: 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.



# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

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.

- 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, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - 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.
- H- Aspiration hazard:

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.

# 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) |       |
| Tetrapropenylphenol  | LD50 oral       | >5000 mg/kg    |       |
| CAS: 74499-35-7  | LD50 dermal     | >5000 mg/kg    |       |
|  | LC50 inhalation | Non-applicable |       |

# Acute Toxicity Estimate (ATE mix):

|                                       | Ingredient(s) of unknown toxicity   |                |
|---------------------------------------|-------------------------------------|----------------|
| Oral >5000 mg/kg (Calculation method) |                                     | Non-applicable |
| Dermal                                | >5000 mg/kg (Calculation method)    | Non-applicable |
| Inhalation                            | >20 mg/L (4 h) (Calculation method) | Non-applicable |

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

# 12.1 Toxicity:

| Identification      | Acute toxicity |                      | Species | Genus      |
|---------------------|----------------|----------------------|---------|------------|
| Tetrapropenylphenol | LC50           | >0.1 - 1 mg/L (96 h) |         | Fish       |
| CAS: 74499-35-7     | EC50           | >0.1 - 1 mg/L (48 h) |         | Crustacean |
|                     | EC50           | >0.1 - 1 mg/L (72 h) |         | Algae      |

# 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:



# SECTION 13: DISPOSAL CONSIDERATIONS (continued)

### 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:

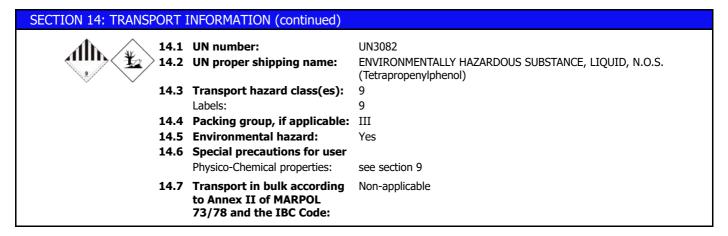
Legislation related to waste management:

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

# SECTION 14: TRANSPORT INFORMATION

| <b>Transport of da</b><br>With regard to SS | -      | us goods by land:   |   |  |
|---|--------|---|---|--|
|   |        | UN number:  | UN3082  |  |
|   |        | UN proper shipping name:  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrapropenylphenol) |  |
|   | 14.3   | Transport hazard class(es):<br>Labels:  | 9<br>9  |  |
|   | 14.5   | Packing group, if applicable:<br>Environmental hazard:                          | III<br>Yes  |  |
|   | 14.6   | <b>Special precautions for user</b><br>Physico-Chemical properties:             | see section 9   |  |
|   | 14.7   | Transport in bulk according<br>to Annex II of MARPOL<br>73/78 and the IBC Code: | Non-applicable  |  |
| Transport of da                             | ngero  | us goods by sea:  |   |  |
| With regard to IM                           | 1DG 39 | -18:  |   |  |
|   | 14.1   | UN number:  | UN3082  |  |
|   | 14.2   | UN proper shipping name:  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrapropenylphenol) |  |
| 1   | 14.3   | Transport hazard class(es):<br>Labels:  | 9<br>9  |  |
|   | 14.4   | Packing group, if applicable:   | III   |  |
|   | 14.5   | Marine pollutant:   | Yes   |  |
|   | 14.6   | Special precautions for user  |   |  |
|   |        | Special regulations:  | 335, 969, 274   |  |
|   |        | EmS Codes:  | F-A, S-F  |  |
|   |        | Physico-Chemical properties:  | see section 9   |  |
|   |        | Limited quantities:   | 5 L   |  |
|   |        | Segregation group:  | Non-applicable  |  |
|   | 14.7   | Transport in bulk according<br>to Annex II of MARPOL<br>73/78 and the IBC Code: | Non-applicable  |  |
| Transport of da                             | ngero  | us goods by air:  |   |  |
| With regard to IA                           |        | 0 2021  |   |  |





# 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 2:

H411: Toxic to aquatic life with long lasting effects.

H360: May damage fertility or the unborn child.

# 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:

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Repr. 1B: H360 - May damage fertility or the unborn child.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

# 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:

# SECTION 16: OTHER INFORMATION (continued)

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 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.