

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**
**1.1 Product Identifier**

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | <b>Transformer oil POWEROIL® TO HFL</b> |
| <b>Product description</b> | Insulating oil                          |
| <b>Product type</b>        | Liquid                                  |
| <b>MARPOL Annex- I</b>     | Oils                                    |

**1.2 Relevant identified uses of the substances or mixture and uses advised against**

|   |            |
|---|------------|
| <b>Distribution of substance</b>                                | Industrial |
| <b>Formulation &amp; (re)packing of substances and mixtures</b> | Industrial |
| <b>Manufacture of substance</b>                                 | Industrial |
| <b>Functional Fluids</b>  | Industrial |

**1.3 Details of the supplier of the safety data sheet**

|                                |  |
|--------------------------------|--|
| <b>Registered company name</b> | Petroleum Specialities FZE.  |
| <b>Address</b>                 | Hamriyah Free zone- Phase 1, Plot no. 1C-02D1, Sharjah, PO box: 42180. United Arab Emirates. |
| <b>Telephone</b>               | +971 65096444 (Office hours 9.30am to 17.00pm)   |
| <b>Website</b>                 | www.apar.com   |
| <b>Email</b>                   | psf.hse@apar.com   |

**1.4 Emergency telephone number**

|  |               |
|--|---------------|
| <b>Association / Organization</b>        | Not Available |
| <b>Emergency telephone numbers</b>       | +971566893936 |
| <b>Other emergency telephone numbers</b> | Not Available |

**SECTION 2 HAZARD IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not considered a dangerous mixture according to directive 1999/45/EC, Reg. (EC) No.1272/2008 (if applicable) and their amendments. Not classified as Dangerous Goods for transport purposes.

|  |                |
|--|----------------|
| <b>Classification according to regulation (EC) no. 1272/2008 [CLP]<sup>[1]</sup></b> | Not classified |
|--|----------------|

**2.2 Label elements**

|  |   |
|--|---|
| <b>CLP label elements</b>                  | Not Applicable  |
| <b>Signal word</b>                         | No signal word  |
| <b>Hazard statement(s)</b>                 | No known significant effects or critical hazards.   |
| <b>P301+P310</b>                           | If SWALLOWED : Immediately call a POISON CENTER/doctor/physician/first aider.                                 |
| <b>P331</b>                                | Do NOT induce vomiting.   |
| <b>Precautionary statement(s) Storage</b>  |   |
| <b>P405</b>                                | Store locked up.  |
| <b>Precautionary statement(s) Disposal</b> |   |
| <b>P501</b>                                | Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration. |

**2.3 Other hazards**

**REACH – Art.57-59 : The mixture does not contain Substance of Very High Concern (SVHC) at the SDS print date.**

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances**

See `Composition on ingredients` in Section 3.2

**3.2 Mixtures**

| 1. CAS No.<br>2. EC No.             | % (Weight)    | Product/Ingredient name                                | Classification according to regulation<br>(EC) No.1272/2008(CLP) | Type |
|-------------------------------------|---------------|--|--|------|
| 1. 64742-54-7<br>2. 265-157-1       | 99.60 – 99.70 | Distillates (petroleum), hydrotreated heavy paraffinic | Not classified   | -    |
| 1.CAS: 128-37-0<br>2.EC : 204-881-4 | 0.30 – 0.40   | 2,6 –Di-tert-Butyl-P-Cresol                            | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                 | [1]  |

Annex I Nota L applies to the base oil(s) in this product. Nota L - The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type**

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

**SECTION 4 FIRST AID MEASURES**
**4.1 Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | If this product comes in contact with eyes :<br><ul style="list-style-type: none"> <li>➤ Wash out immediately with water</li> <li>➤ If irritation continues, seek medical attention.</li> <li>➤ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | If skin or hair contact occurs:<br><ul style="list-style-type: none"> <li>➤ Flush skin and hair with running water (and soap if available).</li> <li>➤ Seek medical attention in event of irritation.</li> </ul>   |
| <b>Inhalation</b>   | ➤ If fumes, aerosol or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.  |
| <b>Ingestion</b>    | ➤ Immediately give a glass of water.<br>➤ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.  |

**4.2 Most important symptoms and effects, both acute and delayed**

See section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**
**5.1 Extinguishing media**

- Dry chemicals Powder.
- Foam.
- BCF (Where regulations permit).
- Carbon dioxide (CO<sub>2</sub>).
- Water spray or fog.

### 5.2 Special hazards arising from the substrate or mixture

Fire incompatibility

- Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine acids, chlorine bleaches, pool chlorine etc. as ignition may results.

### 5.3 Advice for firefighters

Fire fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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

See section 8

### 6.2 Environmental precautions

See section 12

### 6.3 Methods and material for containment and cleaning up

**Minor spills**

- Remove all ignitions sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable, labelled container for waste disposal.
- 

### 6.4 Reference to other sections

Personal protective Equipment advice is contained in Section 8 of this SDS.

## SECTION 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Safe Handling**

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use. Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

**Fire and explosion protection**

See section 5

### 7.2 Conditions for safe storage, including any in compatibilities

**Suitable container**

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labeled and free from leaks.

**Storage incompatibility**

Avoid reaction with oxidizing agents.

### 7.3 Specific end use(s)

Section 1.2

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

**DERIVED NO EFFECT LEVEL (DNEL)**

Not available

**PREDICTED NO EFFECT LEVEL (PNEL)**

Not available

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

#### 8.2.2 Personal protection



**Eye and face protection**

- Safety glasses with side shields
- Chemical goggles.

**Skin protection**

See Hand protection below

**Hands/feet protection**

Wear general protective gloves, e.g. light weight rubber gloves.

**Body protection**

See Other protection below

**Other protection**

No special equipment needed when handling small quantities.

**OTHERWISE:**

- Overalls.
- Barrier cream.
- Eyewash unit.

**Thermal hazards**

Not Available

**Respiratory protection Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)**

**8.2.3. Environmental exposure controls** See section 12

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

|   |  |
|---|--|
| <b>Appearance</b>                                     |  |
| <b>Physical state</b>                                 | Liquid                                     |
| <b>Color</b>  | Colourless to Light yellow                 |
| <b>Form</b>   | Liquid                                     |
| <b>Odor</b>   | Slight petroleum odor                      |
| <b>Odour threshold</b>                                | Not applicable                             |
| <b>pH</b>   | Not applicable                             |
| <b>Melting point/Pour point</b>                       | < -9°C (ASTM D-97)                         |
| <b>Flash point</b>                                    | Closed cup: > 265°C                        |
| <b>Evaporation rate</b>                               | <1 (n-butyl acetate = 1)                   |
| <b>Flammability (solid, gas)</b>                      | Not applicable                             |
| <b>Flammability limits in air, lower, % by volume</b> | No Data                                    |
| <b>Flammability limits in air, upper, % by volume</b> | No Data                                    |
| <b>Vapour pressure</b>                                | <0.013 kPa (<0.1 mm Hg) [room temperature] |
| <b>Vapour density</b>                                 | >1 [Air = 1]                               |
| <b>Density</b>  | 0.840 to 0.910 at 15°C                     |
| <b>Solubility(ies)</b>                                |  |
| <b>Solubility (water)</b>                             | Insoluble                                  |
| <b>Partition coefficient (n-octanol/water)</b>        | >6   |
| <b>Decomposition temperature</b>                      | No Data                                    |
| <b>Auto-ignition temperature</b>                      | > 340°C                                    |
| <b>Viscosity, Kinematic at 100°C (212°F)</b>          | 0.16 cm <sup>2</sup> /s Max. (16.0 cSt)    |
| <b>Explosive properties</b>                           | No Data                                    |
| <b>Oxidising properties</b>                           | No Data                                    |
| <b>DMSO extractible compound according to IP-346</b>  | < 3.0 %                                    |

**9.2 Other Information** Not Available

**SECTION 10 STABILITY AND REACTIVITY**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | Stable.  |
| <b>10.2 Chemical stability</b>                 | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>10.3 Possibility of hazardous Reactions</b> | Avoid temperatures exceeding the flash point.  |
| <b>10.4 Conditions to avoid</b>                | No specific data.  |
| <b>10.5 Incompatible materials</b>             | No specific data.  |
| <b>10.6 Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

**SECTION 11 TOXICOLOGICAL INFORMATION**

|   |  |
|---|--|
| <b>Routes of exposure</b>                                 | Inhalation. Ingestion.   |
| <b>Acute toxicity</b>                                     | Not classified.  |
| <b>Skin corrosion/irritation</b>                          | Not classified. May be irritating to the skin.   |
| <b>Serious eye damage/eye irritation</b>                  | Not classified. May cause minor irritation on eye contact.   |
| <b>Respiratory sensitiser</b>                             | Not classified.  |
| <b>Skin sensitisation</b>                                 | Not classified.  |
| <b>Mutagenicity</b>                                       | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | No known significant effects or critical hazard  |
| <b>Reproductive toxicity</b>                              | Contains no ingredient listed as toxic to reproduction.  |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Epidemiology</b>                                       | No epidemiological data is available for this product.   |
| <b>Endocrine disrupting properties</b>                    | Not Listed   |
| <b>Information on other hazards</b>                       | There is no additional information   |

**SECTION 12 ECOLOGICAL INFORMATION**

|  |                             |
|--|-----------------------------|
| <b>12.1 Toxicity Acute fish Toxicity</b> | No considered toxic to fish |
| <b>LC50, 96 Hrs., Fish</b>               | >1000 mg/l                  |
| <b>EC50, 48 Hrs., Daphnia</b>            | >1000 mg/l                  |
| <b>IC 50, 72 Hrs., Algae</b>             | >1000 mg/l                  |

|   |   |
|---|---|
| <b>12.2 Persistence and degradability</b> |   |
| <b>degradability</b>                      | The product is not readily biodegradable. |

**12.3 Bioaccumulative potential**

|                 |                                       |
|-----------------|---------------------------------------|
| <b>Gradient</b> | <b>Bioaccumulation</b>                |
|                 | No data available for all ingredients |

**12.4 Mobility in soil**

|                 |   |
|-----------------|---|
| <b>Mobility</b> | The product is insoluble in water and will spread on the water surface. |
|-----------------|---|

**12.5 Results of PBT and vPvB assessment**

|                         | <b>P</b>      | <b>B</b>      | <b>T</b>      |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not available | Not available | Not available |
| PBT Criteria fulfilled? | Not available | Not available | Not available |

**12.6 Endocrine disrupting properties**
**Not Listed**
**12.7 Other adverse effects**

organisms.

Insoluble in water. Spills may form a film on water surfaces causing physical damage to

Oxygen transfer could also be impaired

**SECTION 13 DISPOSAL CONSIDERATIONS**
**13.1 Waste treatment methods**

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

**Product / Packaging disposal**

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

|                                |               |
|--------------------------------|---------------|
| <b>Waste treatment options</b> | Not available |
| <b>Sewage disposal options</b> | Not available |

**SECTION 14 TRANSPORT INFORMATION**

General The product is not covered by international regulation on the transport of dangerous goods(IMDG,IATA,ADR/RID)

|  |   |
|--|---|
| <b>14.1 UN Number</b>                      | Not classified as dangerous goods for transport.              |
| <b>14.2 UN proper shipping name</b>        | Not applicable  |
| <b>14.3 Transport hazard class(es)</b>     | Not applicable  |
| <b>14.4 Packing group</b>                  | Not applicable  |
| <b>14.5 Environmental hazards</b>          | Not classified as marine pollutant/environmentally hazardous. |
| <b>14.6 Special precautions for user</b>   | Not applicable  |
| <b>14.7 Transport in bulk according to</b> | Not applicable  |

Annex II of MARPOL 73/78 and the  
 IBC Code

**SECTION 15 REGULATORY INFORMATION**
**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

National Regulations

Water Hazard Class (Germany) : WGK 1

**SECTION 15 REGULATORY INFORMATION**
**15.2. Chemical safety assessment**
**Inventory status**

| Country(s) or region On     | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | Yes                    |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16 – OTHER INFORMATION**
**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Abbreviations**

|             |  |
|-------------|--|
| IMDG – CODE | International maritime dangerous goods code. |
| ICAO        | International Civil Aviation Organization    |
| IATA        | International air transport association      |