1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier
Material Name: TRANSFORMER OIL POWEROIL® TO NE

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product Use: Dielectric fluid.
Uses advised against: None.

1.3 Details of the supplier of the substance or mixture
Company: Apar Industries Limited
18, T.T.C., M.I.D.C. Industrial Area, Thane Belapur Road, Rabale, Navi Mumbai – 400701, India.
Telephone: +91 22 61110444 (Office hours 9.30am to 17.00pm)
Emergency Telephone: +91 9833811132
Email: hse@apar.com

2. Hazards Identification
This product is not classified as hazardous and this document has been compiled for information purposes, in accordance with regulation 1907/EC/2006, Annex II, as amended by Regulation (EU) No. 453/2010 and OSHA hazard communication guidelines.

2.1 Classification of the substance or mixture

2.2 Label elements
Regulation (EC) No 1272/2008 (CLP): No symbol or signal word.

2.3 Other hazards
None.

3. Composition/Information on Ingredients
CAS No.: 68956-68-3.
Description: Blend of natural triglyceride esters (vegetable oil).
Composition:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blend of natural triglyceride esters</td>
<td>68956-68-3</td>
<td>&gt;98.5%</td>
</tr>
<tr>
<td>Performance enhancing additives</td>
<td>Proprietary</td>
<td>&lt;1.5%</td>
</tr>
</tbody>
</table>

All constituents are listed on the TSCA inventory. Additives used in this product are a trade secret but do not lead to classification of the substance as hazardous.

4. First Aid Measures

4.1 Description of first aid measures
Inhalation: None envisaged due to the low vapour pressure of the substance.
Skin: Wash with soap and water. Obtain medical attention if irritation develops.
Eyes: Irrigate with copious amounts of water. Obtain medical attention if irritation develops.
Ingestion: Do not induce vomiting, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed
No adverse effects expected.

4.3 Indication of any immediate medical attention and special treatment needed
No special treatment required.

5. Fire Fighting Measures

5.1 Extinguishing media
Carbon dioxide, dry powder, ABF foam or water fog. Do not use water jets.

5.2 Special hazards arising from the substance or mixture
None.

5.3 Advice for fire fighters
Self-contained breathing apparatus may be required.
6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Spilt product constitutes a slip hazard. Avoid contact with skin and eyes.

6.2 Environmental precautions
Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains. In the event of a large spillage contain product as thoroughly as possible and dispose of in accordance with local regulations.

6.3 Methods and material for containment and cleaning up
Soak up spilt material with absorbent granules for disposal.

7. Handling and Storage

7.1 Precautions for safe handling
Avoid eye and prolonged skin contact.

7.2 Conditions for safe storage, including any incompatibilities
No special precautions required.

7.3 Specific end use(s)
Exposure to air should be minimised. Opened containers should be properly resealed.

8. Exposure Controls/Personal Protection

8.1 Control parameters
No relevant control parameters.

8.2 Exposure controls
Eye washes should be available for emergency use.
Respiratory protection: None required.
Skin protection: Wear coveralls.
Hand protection: Wash hands after use. For prolonged or repeated skin contact gloves are recommended.
Eye protection: If splashes are likely to occur wear safety glasses.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Appearance: Pale amber liquid.
Odour: None.
pH: Not applicable.
Freezing point: -31°C.
Initial boiling point and boiling range: >300°C.
Flash point: 327°C (open cup).
Flammability (solid, gas): Non-flammable.
Upper/lower flammability or explosive limits: Data not available.
Vapour pressure: Data not available.
Vapour density: Not applicable.
Relative density: 0.92 at 20°C.
Water solubility: <1mg/l.
Solubility: Not applicable.
Partition coefficient: Data not available.
Auto-ignition temperature: No auto-ignition expected.
Decomposition temperature: Data not available.
Viscosity: 32mm²/s at 40°C.
Explosive properties: Non-explosive.
Oxidising properties: Non-oxidising.

9.2 Other information
Not applicable.
10. Stability and Reactivity

10.1 Reactivity
Stable under normal conditions of use.

10.2 Chemical stability
Stable under normal conditions of use.

10.3 Possibility of hazardous reactions
Data not available.

10.4 Conditions to avoid
Temperatures >250°C.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
None.

11. Toxicological Information

11.1 Information on toxicological effects
Likely routes of exposure: Skin and eyes are the most likely routes for exposure. Accidental ingestion may occur. Inhalation is not expected to be a relevant route of exposure. Product is vegetable oil based and as such non-toxic.

Acute oral toxicity: Considered to be low toxicity, vegetable oil.
Acute dermal toxicity: Considered to be low toxicity.
Acute inhalation toxicity: Low volatility makes inhalation unlikely.
Skin corrosion/irritation: Considered to be not irritating.
Eye corrosion/irritation: Considered to be not irritating.
Respiratory or skin sensitisation: Considered to be not sensitising.
Aspiration hazard: Not considered an aspiration hazard.
Carcinogenicity/mutagenicity: Not considered a mutagenic hazard or carcinogen. This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

12. Ecological Information
When used and/or disposed of as indicated no adverse environmental effects are foreseen. Ecotoxicological effects based on knowledge of similar substances.

12.1 Toxicity
Substances of this type do not pose a hazard to aquatic organisms.

12.2 Persistence and degradability
Readily biodegradable.

12.3 Bioaccumulative potential
No potential for bioaccumulation.

12.4 Mobility in soil
Considered to have low mobility in soil.

12.5 Results of PBT and vPvB assessment
The product does not meet criteria for toxicity which requires further assessment. It is not considered PBT or vPvB.

12.6 Other adverse effects
No other adverse effects envisaged.

13. Disposal Considerations

13.1 Waste treatment methods
Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated. Unused product may be returned for reclamation.

14. Transport Information
Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations.

14.1 UN number
Not relevant.

14.2 UN proper shipping name
Not relevant.

14.3 Transport hazard class
Not relevant.

14.4 Packing group
Not relevant.

14.5 Environmental hazards
Not relevant.
14.6 Special precautions for user  
Not relevant.

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Product is exempt from REACH registration.  
All constituent substances in this product are listed in the TSCA inventory.

15.2 Chemical safety assessment  
A chemical safety assessment has not been carried out for this product.

16. Other Information  

16.1 Changes from last issue: NA

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.