

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

1.1 Product Identifier

Material Name: TRANSFORMER OIL POWEROIL® TO SE

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)

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2. Hazards Identification This product is not classified as hazardous and this document has been compiled for information purposes, in accordance 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 Regulation (EC) No 1272/2008 (CLP): Not classified.

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

3 Substance

CAS No.: 68424-31-7.

Description: Blend of Fatty Acids C5-10 , Mixed Ester with Pentaerythritol

Composition:

| Constituent | CAS Number | Contents |
|----------------------------------|-------------|----------|
| Blend of Fatty Acids Tetra Ester | 68424-31-7 | >99.5% |
| Performance enhancing additives | Proprietary | <0.5% |

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: -45°C.

Initial boiling point and boiling range: >300°C.

Flash point: > 250°C (open cup).

Flammability (solid, gas): Non-flammable.

Upper/lower flammability or explosive limits: Data not available.

Vapour pressure: <0.001 Pa at 20 °C.

Vapour density: Not applicable.

Relative density: 0.97 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: 27 mm²/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 toxicological

When used and/or disposed of as indicated no adverse environmental effects are foreseen. Eco

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 regulations.

Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID)

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 OSHA hazard

Compiled according to regulation 1907/EC/2006, Annex II, as amended by Regulation (EU) No. 453/2010 and communication guidelines.

16.1 Changes from last issue: NA

Disclaimer

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