

Safety Data Sheet
Regulation (EC) No. 1907/2006
(REACH), Annex II, as amended by
Commission Regulation (EU) 2015/830.

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product name Transformer oil POWEROIL® TO HFLL

Product description Insulating oil
Product type Liquid
MARPOL Annex- I Oils

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

Industrial

Distribution of substance

Formulation & (re)packing of

substances and mixtures Industrial
Manufacture of substance Industrial
Functional Fluids Industrial

1.3 Details of the supplier of the safety data sheet

Registered company name APAR Industries Limited

Address 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)

 Fax
 +91 22 2760 2692

 Website
 www.apar.com

 Email
 hse@apar.com

1.4 Emergency telephone number

Association / Organisation Not Available
Emergency telephone numbers +91 9833811132
Other emergency telephone numbers 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.

Classification according to regulation

(EC) no. 1272/2008 [CLP]^[1] Not classified

2.2 Label elements

CLP label elementsNot ApplicableSignal wordNo signal word

Hazard statement(s)No known significant effects or critical hazards.

P301+P310 If SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.

P331 Do NOT induce vomiting.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 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.

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

See `Composition on ingredients` in Section 3.2

3.2 Mixtures

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

Eye Contact If this product comes in contact with eyes :

> Wash out immediately with water

> If irritation continues, seek medical attention.

> Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact If skin or hair contact occurs:

> Flush skin and hair with running water (and soap if available).

> Seek medical attention in event of irritation.

Inhalation > If fumes, aerosol or combustion products are inhaled remove from contaminated area. Other measures

are usually unnecessary.

Ingestion ➤ Immediately give a glass of water.

> 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 (CO2).
- > 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.

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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

- > Remove all ignitions sources.
- > Clean up all spills immediately.

Minor spills

- 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

- > 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.

Safe Handling

- > 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











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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

Appearance

Physical state Liquid

Color Colourless to Light yellow

Form Liquid

OdorSlight petroleum odorOdour thresholdNot applicablepHNot applicableMelting point/Pour point< -9°C (ASTM D-97)</td>Flash pointClosed cup: > 265°CEvaporation rate<1 (n-butyl acetate = 1)</td>

Flammability (solid, gas) Not applicable Flammability limits in air, No Data

lower, % by volume

Flammability limits in air, No Data

upper, % by volume

Vapour pressure <0.013 kPa (<0.1 mm Hg) [room temperature]

Vapour density >1 [Air = 1]

Density 0.840 to 0.910 at 15°C

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient

(n-octanol/water) >6

Decomposition temperature No Data

Auto-ignition temperature > 340°C

Viscosity, Kinematic at 100°C (212°F) 0.16 cm²/s Max. (16.0 cSt)

Explosive properties No Data **Oxidising properties** No Data

DMSO extractible compound

according to IP-346 < 3.0 %

9.2 Other Information Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity Stable.

10.2 Chemical stabilityUnder normal conditions of storage and use, hazardous reactions will not occur.

10.3 Possibility of hazardous Reactions Avoid temperatures exceeding the flash point.

10.4 Conditions to avoidNo specific data10.5 Incompatible materialsNo specific data

10.6 Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

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SECTION 11 TOXICOLOGICAL INFORMATION

Routes of exposure Inhalation. Ingestion.
Acute toxicity Not classified.

Skin corrosion/irritationNot classified. May be irritating to the skin.

Serious eye damage/eye irritation Not classified. May cause minor irritation on eye contact.

Respiratory sensitiserNot classified.Skin sensitisationNot classified.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

 Carcinogenicity
 No known significant effects or critical hazard

 Reproductive toxicity
 Contains no ingredient listed as toxic to reproduction.

Not classified.

Specific target organ toxicity

- single exposure

Specific target organ toxicity Not classified.

- repeated exposure

Epidemiology No epidemiological data is available for this product.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity Acute fish Toxicity No considered toxic to fish

LC50, 96 Hrs., Fish >1000 mg/l EC50, 48 Hrs., Daphnia >1000 mg/l IC 50, 72 Hrs., Algae >1000 mg/l

12.2 Persistence and degradability	

degradability The product is not readily biodegradable.

12.3 Bioaccumulative potential

Gradient	Bioaccumulation
	No data available for all ingredients

12.4 Mobility in soil

Mobility	The product is insoluble in water and will spread on the water surface.
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12.5 Results of PBT and vPvB assessment

	Р	В	Т
Relevant available data	Not available	Not available	Not available
PBT Criteria fulfilled?	Not available	Not available	Not available

12.6 Other adverse effects

No data available

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
- Product / Packaging disposal

 Disposal (if all else fails)

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.

Waste treatment options Not available

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Sewage disposal options

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)

14.1 UN Number Not classified as dangerous goods for transport.

14.2 UN proper shipping name
14.3 Transport hazard class(es)
Not applicable
Not applicable
Not applicable

14.4 Packing group

Not classified as marine pollutant/environmentally hazardous.

14.5 Environmental hazards Not applicable14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to 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)

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

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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).