



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

1.1	Product Identifier	
	Product name	POWEROIL THERM SYN 600
	Product description	Thermic Fluidl
	Product type	Liquid
	MARPOL Annex- I	Oils
1.2	Identified uses	
	Distribution of substance	Industrial
	Formulation & (re)packing of substances and mixtures	Industrial Industrial
	Manufacture of substance Functional Fluids	Industrial
1.3	Details of the supplier of the safety	/ data sheet
	Supplier/Manufacturer	APAR Industries Limited 18 T.T.C., M.I.D.C. Industrial Area , Thane Belapur Road , Rabale, Navi Mumbai – 400701. India. +91 22 61110444 (Office hours 9.30am to 17.00pm) www.apar.com
	e- mail address of person responsible for this SDS	hse@apar.com
1.4	Emergency telephone number	+91 9833811132

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Product definition Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Asp. Tox. 1, H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements	H 304 : May be fatal if swallowed and enters airways.
Precautionary statements	Not applicable
Prevention	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce
Response	vomiting.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain	Not applicable

placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable

Not applicable



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

SECTION 3 COMPOSTION/ INFORMATION ON INGREDIENTS

3.2 Mixtures	Mixture			
Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Naphtha (petroleum), full-range alkylate	CAS : 64741-64-6	99	Flam. Liq. 1;H224, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Chronic 2; H411	[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. <u>Type</u>

[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	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If
Inhalation	casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.
Skin contact	Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a safe manner. Seek medical attention if skin irritation, swelling or redness develops and persists. Accidental high pressure injection through the skin requires immediate medical attention. Do not wait for symptoms to develop.
Ingestion	Always assume that aspiration has occurred. Do not induce vomiting. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek professional medical attention or send the casualty to a hospital. Do not wait for symptoms to develop. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or
	waistband. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Before attempting to rescue casualties, isolate area from all potential sources of ignition including
Protection of first-aiders	disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
Eye contact	Eye contact may cause redness and transient pain.
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
Skin contact	No known significant effects or critical hazards.
Ingestion	May be fatal if swallowed and enters airways.
4.3 Indication of any immediate med	ical attention and special treatment needed
Notes to physician	Due to low viscosity there is a risk of aspiration if the product enters the lungs. Treat symptomatically.
Specific treatments	Always assume that aspiration has occurred.



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SECTION 5 FIRE FIGHTING MEASURES 5.1 Extinguishing media Dry chemicals. Foam. Carbon dioxide (CO₂). Water spray or foam. Suitable extinguishing media Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Unsuitable extinguishing media Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. 5.2 Special hazards arising from the substance or mixture Hazards from the substance In a fire or if heated, a pressure increase will occur and the container may burst. or mixture This substance will float and can be reignited on surface water. Hazardous thermal Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, decomposition products gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and inorganic compounds. 5.3 Advice for firefighters Special precautions for firefighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. SECTION 6 ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapour or mist. Keep non-involved personnel away from the area of spillage. Alert For non-emergency personnel emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind/keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed ,are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note : recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For emergency responders For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note : gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection : A half or full-face respirator with filter(s) for organic vapours (and when applicable for H2S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used. Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with **6.2** Environmental precautions dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.



6.3 Methods and material for containment

and cleaning up Small spill Large spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.		
SECTION 7 HANDLING AND STOP	RAGE		
7.1 Advice on general occupational hygiene Storage	Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Change contaminated clothes at the end of working shift. See also Section 8 for additional information on hygiene measures.		
7.2 Conditions for safe storage, including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.		
SECTION 7 HANDLING AND STO	RAGE		
7.2 Conditions for safe storage, including any incompatibilities7.3 Specific end use(s)	Store separately from oxidising agents. Recommended materials for containers, or container linings use mild steel, stainless steel. Not suitable : Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable/combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Store locked up. Protect from sunlight. Not available		
Recommendations Industrial sector specific solutions	Not available		

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters Occupational exposure limits

Product/Ingredient name	Exposure limits values
Distillates (petroleum), Hydro treated Heavy Naphthenic	AFS 2015:7 (Sweden, 12/2015).
	TWA: 1 mg/m ³ 8 hours. Form: mist and fume
Oil mist	STEL: 3 mg/m ³ 15 minutes. Form: mist and fume
	[Air contaminant]
	AFS 2015:7 (Sweden, 12/2015).
	TWA: 1 mg/m ³ 8 hours. Form: mist and fume
	STEL: 3 mg/m ³ 15 minutes. Form: mist and fume
	·



Iomorrow's solutions today	Commission Regulation (EU) 2015/830.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological
	monitoring may be required to determine the effectiveness of the ventilation or other control measures
	and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring
	standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the
	assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement
	strategy) European Standard EN 14042 (Workplace
	atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical
	and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the
	performance of procedures for the measurement of chemical agents) Reference to national guidance
	documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure Control	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in
Appropriate engineering	construction of handling equipment. Store under recommended conditions and if heated, temperature
	control equipment should be used to avoid overheating.
Controls	
	Wash hands, forearms and face thoroughly after handling chemical products,
Individual protection measures	before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash
Hygiene measures	stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
	Recommended: Safety glasses with side shields.
Eye/face protection	
Skin protection	4 - 8 hours (breakthrough time): nitrile rubber
Hand protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of
Body protection	working shift.
	Appropriate footwear and any additional skin protection measures should be selected based on the task
Other skin protection	being performed and the risks involved and should be approved by a specialist before handling this
	product.
	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and
Respiratory protection	the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying
	with an approved standard if a risk assessment indicates this is necessary.
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering
Environmental exposure controls	modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
SECTION 9 PHYSICAL AND CH	IEMICAL PROPERTIES
Appearance	Clear
Physical state	Liquid
Color	Colorless to Light yellow
Odor	Mild Petroleum odor
Odour threshold	Not available
рН	Not applicable
Melting point/Pour point	< -42°C (ASTM D-97)
Flash point	> 160°C Open Cup (ASTM D 92)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air,	Not available
lower, % by volume	
Flammability limits in air,	Not available
upper, % by volume	
Vapour pressure	Not available
Density	0.870 max at 15°C
Solubility(ies)	
Solubility (water)	Insoluble in water
Partition coefficient	Not available
(n-octanol/water)	
Decomposition temperature	No Data
A	× 200°C

> 300°C

 $20 \text{ mm}^2/\text{s}$

Auto-ignition temperature

Viscosity, Kinematic at 40°C (104°F)





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

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.
Reactions	Keep away from extreme heat and oxidizing agents.
10.4 Conditions to avoid	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates,
10.5 Incompatible materials	gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and
10.6 Hazardous decomposition products	inorganic compounds.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), full-range alkylate	LC50 Inhalation Dusts and mists	Rat	>5610 mg/l	96 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Irritation/Corrosion				
Skin	No known significant effects or critical	nazards.		
Еуе	No known significant effects or critical	nazards.		
Respiratory	No known significant effects or critical	nazards.		
<u>Sensitisation</u>				
Skin	No known significant effects or critical			
Respiratory	No known significant effects or critical			
<u>Mutagenicity</u>	No data available to indicate product o	r any components pres	sent at greater than 0.1%	are mutagenic or
	genotoxic.			
SECTION 11 TOXICOLOGICAL IN			and the set of the	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not b			
	regarded as a carcinogen.			
Reproductive toxicity	Contains no ingredient listed as toxic to	reproduction.		
Specific target organ toxicity	Not classified			
- single exposure				
Specific target organ toxicity	Not classified			
- repeated exposure				
Aspiration hazard	Aspiration hazard - Category 1			
Information on likely routes of exposure	Not available.			
Potential acute health effects				
Eye contact	Eye contact may cause redness and trar	isient pain.		
Inhalation	Inhalation of oil mist or vapours at eleva	ited temperatures may	cause respiratory irritati	on.
Skin contact	No known significant effects or critical	nazards.		
Ingestion	May be fatal if swallowed and enters air	ways.		
Potential chronic health effects				
General	No known significant effects or critical	nazards.		
Carcinogenicity	The base oil(s) in this product is based	on an severely hydrotr	eated distillate. The proc	duct should not be
	regarded as a carcinogen.			
Mutagenicity	No known significant effects or critical	nazards.		
Teratogenicity	No known significant effects or critical	nazards.		
Product/ingredient name	No known significant effects or critical	nazards.		
Fertility effects	No known significant effects or critical			



Other information

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

Not available.

Specific hazard	
SECTION 12 ECOLOGICAL INFO	RMATION
12.1 Toxicity	Not expected to be harmful to aquatic organisms.
12.2 Persistence and degradability	Not inherently biodegradable.
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
12.4 Mobility in soil	Not considered mobile.
12.5 Results of PBT & vPvB Assessment	Not applicable.
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

SECTION 13 DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be

consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorizations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organization, and/or prescribe composition limits and methods for recovery or disposal.

Hazardous waste	Yes	
SECTION 13 DISPOSAL CONSIDERATIONS		
European waste catalogue (EWC)		
Waste code	Waste designation	
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils	
Packaging		

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14 TRANSPORT INFORMATION International transport regulations

	ADR/ RID	ADN	IMO/IMDG Classification	ICAO/IATA Classification
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional information	-	-	-	-

14.6 Special precautions for User

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk

according to Annex I of MARPOL

73/78 and the IBC Code

SECTION 15 REGULATORY INFORMATION

Oils





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

15.1 Safety, health and environme	ental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907/2006 (RE)	ACH)	
Annex XIV - List of substances subject to	o authorization	
Annex XIV		
Substances of very high concern	None of the components are listed.	
Annex XVII - Restrictions on the		
manufacture, placing on the market and		
use of certain dangerous substances,		
mixtures and articles		
Other EU regulations		
<u>Seveso D</u> This product is not controlled under the Seveso Directive.		
International Lists	Inventory name	On inventory (yes/no)*
National Inventory		
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)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
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 "Vos" indicatos that all components of	this product comply with the inventory requirements administered by the governing	country(c)

*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).

15.2 Chemical Safety Assessment **SECTION 16 OTHER INFORMATION Revision comments** Not available. Legend to abbreviations ADR European agreement concerning the international carriage of dangerous good by road. RID Regulations agreement concerning the international carriage of dangerous good by rail. IMDG - CODE International maritime dangerous goods code. ICAO International Civil Aviation Organization. IATA International air transport association. GHS Globally Harmonized System of Classification and Labeling of Chemicals. CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]. SCBA Self-Contained Breathing Apparatus. REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]. LC 50 Median lethal concentration. LD 50 Median lethal dose. PBT Persistent, Bioaccumulative and Toxic. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Justification Asp. Tox. 1, H304 Calculation method Full text of abbreviated H statements H304 May be fatal if swallowed and enters airways. Full text of classifications [CLP/GHS] Asp. Tox. 1, H304 Date of issue/Date of revision 1st October 2020. Date of previous issue January 2019 Version 02

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



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used in combination with any other materials or in any process, unless specified in the text.