



## 1 . Identification of the material and supplier

<b>Product name</b>	<b>Energol THB 150</b>
<b>SDS no.</b>	459037
<b>Product use</b>	Turbine Oil For specific application advice see appropriate Technical Data Sheet or consult our company representative.
<b>Supplier</b>	BP Australia Pty Ltd (ABN 53 004 085 616) 717 Bourke Street Docklands VIC 3008 Australia Tel: +61 (03) 9268 4111 Fax: +61 (03) 9268 3321
<b>EMERGENCY TELEPHONE NUMBER</b>	+61 29032 0460 (or 1800 14 14 74 within Australia)
<b>OTHER PRODUCT INFORMATION</b>	Technical Help Line 1 300 139 700 (Local Call)
<b>Product code</b>	459037-AU07

## 2 . Hazards identification

<b>Statement of hazardous/dangerous nature</b>	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
<b>Risk phrases</b>	R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 . Composition/information on ingredients

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.  
**This product does not contain any hazardous ingredients at or above regulated thresholds.**

## 4 . First-aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.
<b>Advice to doctor</b>	Treatment should in general be symptomatic and directed to relieving any effects.

## 5 . Fire-fighting measures

<b>Extinguishing media</b>	
<b>Suitable</b>	Use foam or all-purpose dry chemical to extinguish. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Not suitable</b>	Do not use water jet.
<b>Hazardous decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Unusual fire/explosion hazards</b>	This material is not explosive as defined by established regulatory criteria.
<b>Special fire-fighting procedures</b>	None identified.
<b>Protection of fire-fighters</b>	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6 . Accidental release measures

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
<b>Environmental precautions</b>	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

<b>Handling</b>	Avoid contact of spilt material and runoff with soil and surface waterways.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.
<b>Combustibility Classification</b>	Combustible liquid Class C2 (AS 1940).

## 8 . Exposure controls/personal protection

<b>Ingredient name</b>	<b>Occupational exposure limits</b>
Base oil - unspecified	<b>Safe Work Australia (Australia).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Oil mist, mineral

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

**Biological Limit Values** No biological limit allocated.

### Exposure controls

**Occupational exposure controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

**Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

### Personal protective equipment

**Respiratory protection** Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level.

**Skin and body** None required; however, use of protective clothing is good industrial practice.

**Hand protection** Wear protective gloves if prolonged or repeated contact is likely. Chemical-resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Eye protection** Safety glasses with side shields.

## 9 . Physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Flash point</b>	>150 °C (Closed cup) Pensky-Martens.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Viscosity</b>	Kinematic: 150 mm <sup>2</sup> /s (150 cSt) at 40°C
<b>pH</b>	Not available.
<b>Boiling point / range</b>	Not available.
<b>Melting point / range</b>	Not available.

<b>Relative density/Specific gravity</b>	Not available.
<b>Density</b>	878 kg/m <sup>3</sup> (0.878 g/cm <sup>3</sup> ) at 15°C
<b>Solubility</b>	insoluble in water.

## 10 . Stability and reactivity

<b>Stability</b>	The product is stable.
<b>Conditions to avoid</b>	Avoid extreme temperatures, strong oxidizers, fire.
<b>Incompatibility with various substances/Hazardous Reactions</b>	No hazardous reactions identified.
<b>Hazardous decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide

## 11 . Toxicological information

### Effects and symptoms

<b>Eyes</b>	No significant health hazards identified.
<b>Skin</b>	No significant health hazards identified.
<b>Inhalation</b>	No significant health hazards identified.
<b>Ingestion</b>	No significant health hazards identified.

### Chronic toxicity

<b>Carcinogenic effects</b>	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).
<b>Mutagenic effects</b>	No known significant effects or critical hazards.

## 12 . Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Biodegradability</b>	
<b>Persistence/degradability</b>	The biodegradability of this material has not been determined.

## 13 . Disposal considerations

<b>Disposal considerations / Waste information</b>	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
<b>Special Precautions for Landfill or Incineration</b>	No additional special precautions identified.

## 14 . Transport information

### International transport regulations

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

<b>Special precautions for user</b>	No known special precautions required. See Section: "Handling and storage" for additional information.
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## 15 . Regulatory information

### Standard for the Uniform Scheduling of Drugs and Poisons

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### Control of Scheduled Carcinogenic Substances

<b>Ingredient name</b>	<b>Schedule</b>
No Listed Substance	

<b>Australia Regulations</b>	Labelling requirements for SUSDP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with NOSHC National Code of Practice for labelling of workplace substances.
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### Other regulations

<b>Europe inventory</b>	All components are listed or exempted.
<b>United States inventory (TSCA 8b)</b>	All components are listed or exempted.
<b>Australia inventory (AICS)</b>	All components are listed or exempted.

<b>Canada inventory</b>	All components are listed or exempted.
<b>China inventory (IECSC)</b>	All components are listed or exempted.
<b>Japan inventory (ENCS)</b>	All components are listed or exempted.
<b>Korea inventory (KECI)</b>	All components are listed or exempted.
<b>Philippines inventory (PICCS)</b>	All components are listed or exempted.

## 16 . Other information

### Key to abbreviations

AMP = Acceptable Maximum Peak  
ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.  
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail  
ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail  
CAS Number = Chemical Abstracts Service Registry Number  
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.  
ICAO = International Civil Aviation Organization.  
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.  
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.  
IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that 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. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.  
NOHSC = National Occupational Health & Safety Commission, Australia  
TWA = Time weighted average  
STEL = Short term exposure limit  
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

### History

<b>Date of issue</b>	12/01/2011.
<b>Date of previous issue</b>	No previous validation.
<b>Prepared by</b>	Product Stewardship

### Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.