

Ministry of Defence HSIS Safety Data Sheet

NSN	NSC	Country Code*	NIIN*
9150992567206	9150	99	2567206
Supply Description			
SDS Version	2		
Item Name	Lubricating Oil Aircraft Turbine Engine Synthetic		
Kit Reference			
Other Description	.		
Commercial Name/Product No*	BP Turbo Oil 2380		
Additional Product ID			
SDS Date			
Manufacturers SDS Reference	28-02-2005		
Supplier	Air BP Ltd		
Address			
Post Code	HP2 4UL		
Suppliers Business Telephone Number	.		
Emergency Tel No	+44 0 1865 407333		
IPT			
REACH Reference Number			
NCage	Ke524		
Status Comment			
Other Information			
Other Information	5 Litres		
Chemical Content	Tricresyl phosphate Phenyl naphthylamine		
Related SDS			



1. Identification of the substance/preparation and of the company/undertaking

Product name	BP Turbo Oil 2380
SDS #	452219
Product use	Lubrication of gas turbines (jet engines) - to be used in accordance with engine manufacturers' guidelines. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Air BP Ltd Chertsey Road Sunbury-on-Thames Middlesex TW16 7LN United Kingdom
EMERGENCY TELEPHONE NUMBER	For general enquiries please go to http://www.airbp.com +44 (0) 1865 407333

2. Composition/information on ingredients

Synthetic base stock. Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Tricresyl phosphate	1330-78-5	1 - 5	215-548-8	Xn; R21/22 N; R51/53
n-phenyl-1-naphthylamine	90-30-2	1 - 5	201-983-0	R43 N; R50/53

See section 16 for the full text of the R Phrases declared above

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Physical/chemical hazards	Not classified as dangerous.
Human health hazards	Not classified as dangerous. Product not classified for sensitisation. Based on data available for this or related materials.
Environmental hazards	Unlikely to be harmful to aquatic organisms. Based on data available for this or related materials.
Effects and symptoms	
Eyes	No significant health hazards identified.
Skin	No significant health hazards identified.
	USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer. See Toxicological Information, section 11 of this Safety Data Sheet.
Inhalation	No significant health hazards identified.
Ingestion	No significant health hazards identified.

4. First aid measures

Eye Contact	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact	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.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.

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Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing Media

Suitable In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Not Suitable Do not use water jet.

Hazardous decomposition products These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), phosphates.

Unusual fire/explosion Hazards None identified.

Special Fire-Fighting Procedures None identified.

Protection of fire-fighters Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").

Environmental precautions and clean-up methods If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal protection in case of a large spill Splash goggles. Full suit. Boots. Gloves.

7. Handling and storage

Handling Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Not Suitable Prolonged exposure to elevated temperature.

8. Exposure controls/personal protection

Occupational exposure limits This product does not have any assigned OELs.

Control Measures Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protective equipment

Respiratory system None required; however, use of adequate ventilation is good industrial practice.

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

Hands None required; however, use of gloves is good industrial practice.

Eyes Safety glasses with side shields.

9. Physical and chemical properties

Flash point 235 °C (Closed cup) Pensky-Martens.

Pour Point -57 °C

Colour Amber.

Odour Characteristic.

Physical state Liquid.

Density 975 kg/m³ (0.975 g/cm³) at 15°C

Solubility Insoluble in water.

LogK_{ow} The product is more soluble in octanol; log(octanol/water) >3

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Viscosity

Kinematic: 24 mm²/s (24 cSt) at 40°C
Kinematic: 4.97 mm²/s (4.97 cSt) at 100°C

10 . Stability and reactivity

Incompatibility with various substances Reactive with oxidising agents.

Hazardous polymerization Will not occur.

11 . Toxicological information

Acute toxicity Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Product not classified for sensitisation. Based on data available for this or related materials.

USED ENGINE OILS
Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

Chronic toxicity

Carcinogenic effects No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12 . Ecological information

Persistence/degradability Inherently biodegradable.

Mobility Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

Environmental hazards Unlikely to be harmful to aquatic organisms. Based on data available for this or related materials.

Other ecological information Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13 . Disposal considerations

Disposal Consideration / Waste information Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

14 . Transport information

Not classified as hazardous for transport (ADR, RID, IMO, IATA/ICAO)

15 . Regulatory information

Label Requirements

Risk Phrases This product is not classified according to the EU regulations.

EU Regulations Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

Other regulations

Inventories

AUSTRALIAN INVENTORY (AICS): Not listed.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): Not listed.

EC INVENTORY (EINECS/ELINCS): In compliance.

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JAPAN INVENTORY (ENCS): Not listed.

KOREA INVENTORY (ECL): Not listed.

PHILIPPINE INVENTORY (PICCS): In compliance.

US INVENTORY (TSCA): In compliance.

Additional warning phrases

Contains (n-phenyl-1-naphthylamine). May produce an allergic reaction. Safety data sheet available for professional user on request.

16 . Other information

Full text of R phrases referred to in sections 2 and 3

R21/22- Harmful in contact with skin and if swallowed.
R43- May cause sensitisation by skin contact.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue

28/02/2005.

Date of previous issue

No Previous Validation.

Prepared by

Product Stewardship Group

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.

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