According to the Controlled Product Regulations

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name Uses	:	AeroShell Turbine Oil 750 Synthetic lubricating oil for aircraft turbine engines. For further details consult the AeroShell Book on www.shell.com/aviation.
Product Code	÷	001A0086
Manufacturer/Supplier	:	Shell Canada Products 400 - 4th Avenue S.W Calgary AB T2P 0J4 Canada
Telephone	:	(+1) 8006611600
Fax	:	(+1) 4033848345
Emergency Telephone Number		

mergency Telephone Num

: CHEMTREC (24 hr): (+1) 800-424-9300 CANUTEC (24 hr): (+1) 613-996-6666

2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Description: : Blend of synthetic esters and additives.

WHMIS Controlled Ingredients

Chemical Identity	CAS No.	Conc. W/W
N-phenyl-1-naphthylamine	90-30-2	1.00- 5.00 %

Refer to Chapter 8 for Occupational Exposure Guidelines.

3. HAZARDS IDENTIFICATION



WHMIS Class/Description Health Hazards Signs and Symptoms Safety Hazards	 Class D2B Other Toxic Effects - Skin Sensitization May cause sensitisation by skin contact. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Harmful if swallowed. Used oil may contain harmful impurities. Skin sensitisation (allergic skin reaction) signs and symptoms may include itching and/or a rash. Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Not classified as flammable but will burn.
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Environmental Hazards	:	Harmful to aquatic organisms, may cause long-term adverse
		effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation	: No treatment necessary under normal conditions of use. If
	symptoms persist, obtain medical advice.
Skin Contact	: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	 Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	: If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs
Advice to Physician	 spontaneously, keep head below hips to prevent aspiration. Treat symptomatically. Call a doctor or poison control center for guidance.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point Upper / lower Flammability or Explosion limits		Typical 238 °C / 460 °F (COC) Typical 1 - 10 %(V)
Auto ignition temperature	:	> 320 °C / 608 °F
Hazardous Combustion Products and Specific Hazards	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing Media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media	:	Do not use water in a jet.
Protective Equipment for Firefighters	:	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Protective Measures	 Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. 	
Clean Up Methods Additional Advice	 Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages 	
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	cannot be contained.
7. HANDLING AND STORAGE	
General Precautions	: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling	: Avoid contact with skin, eyes and clothing. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Storage	 Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: -50 - 50 °C / -58 - 122 °F
Recommended Materials	: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials	: PVC.
Additional Information	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m3	Notation
Phenothiazine	ACGIH	TWA		5 mg/m3	
	ACGIH	SKIN_DES			Can be absorbed through the skin.

Consult local authorities for acceptable exposure limits within their jurisdiction.

	The level of protection and types of controls necess depending upon potential exposure conditions. See based on a risk assessment of local circumstance Appropriate measures include: Adequate ventilation airborne concentrations. Where material is heated mist formed, there is greater potential for airborne concentrations to be generated. Personal protective equipment (PPE) should meet	lect controls s. on to control , sprayed or
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Equipment Respiratory Protection	:	recommended national standards. Check with PPE suppliers. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].
Hand Protection	:	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
Eye Protection	:	Wear safety glasses or full face shield if splashes are likely to occur.
Protective Clothing	:	Skin protection not ordinarily required beyond standard issue work clothes.
Monitoring Methods	:	Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
Environmental Exposure Controls	:	Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance Odour Odour threshold pH Initial Boiling Point and Boiling Range Pour point	 Pale yellow. Liquid at room temperature. Slight. Data not available Not applicable. > 280 °C / 536 °F estimated value(s) < -54 °C / -65 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Specific gravity	: Typical 0.947 at 15 °C / 59 °F

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Density Water solubility n-octanol/water partition coefficient (log Pow)	 Typical 947 kg/m3 at 15 °C / 59 °F Negligible. > 6 (based on information on similar products)
Kinematic viscosity Vapour density (air=1) Evaporation rate (nBuAc=1)	 Typical 32 mm2/s at 40 °C / 104 °F > 1 (estimated value(s)) Data not available

10. STABILITY AND REACTIVITY

Stability Conditions to Avoid Materials to Avoid Hazardous Decomposition Products Hazardous Polymerisation Sensitivity to Mechanical Impact	 Stable. Extremes of temperature and direct sunlight. Strong oxidising agents. Hazardous decomposition products are not expected to form during normal storage. No No 	
Sensitivity to Static Discharge	: No	

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	 Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	Expected to be moderately toxic: LD50 >200 - 2000 mg/kg , Rat.
Acute Dermal Toxicity Acute Inhalation Toxicity	 Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit. Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	Expected to be slightly irritating.
Respiratory Irritation	Inhalation of vapours or mists may cause irritation.
Sensitisation	Expected to be a skin sensitizer. Reports of photosensitization by phenothiazine are inconclusive.
Repeated Dose Toxicity	Not expected to be a hazard.
Mutagenicity	Not considered a mutagenic hazard.
Carcinogenicity	Components are not known to be associated with carcinogenic effects.
Reproductive and	Not expected to be a hazard.
Developmental Toxicity	
Additional Information	 Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

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12.	ECOLOGICAL INFORMATION					
			een determined specifically for this product. Information given is nponents and the ecotoxicology of similar products. Poorly soluble mixture.May cause physical fouling of aquatic organisms.Expected to be harmful:LL/EL/IL50 10-100 mg/l(to aquatic organisms)(LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).			
	Mobility	:	Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.			
	Persistence/degradability	:	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.			
	Bioaccumulation	:	Contains components with the potential to bioaccumulate.			
	Other Adverse Effects	:	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.			
13. DISPOSAL CONSIDERATIONS						
	Material Disposal	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.			
	Container Disposal Local Legislation	:	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.			

14. TRANSPORT INFORMATION

Canadian Road and Rail Shipping Classification

This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Class/Description:Class D2B Other Toxic Effects - Skin SensitizationInventory Status:All components
listed or polymer
exempt.TSCA:All components
listed.DSL:All components
listed.

16. OTHER INFORMATION

MSDS Version Number	:	1.2
MSDS Effective Date	:	2014-12-22
MSDS Revisions	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Regulation	:	The content and format of this (M)SDS is in accordance with the Controlled Product Regulations.
MSDS Prepared By Uses and Restrictions	:	Shell Product Stewardship; 1-800-661-1600 This product must be used, handled and applied in accordance
MSDS Distribution	:	with the requirements of the equipment manufacturer's manuals, bulletins and other documentation. The information in this document should be made available to all who may handle the product.
Disclaimer	:	The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.