



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Dynasty MOTOR OIL 20W50**

Other Names: **DYNASTY MOTOR OIL– DO20W50 – 205 litre drum**

Recommended Use: Dynasty Motor Oil delivers the engine protection required by new engine designs and operating conditions. It protects engine during stress of cold starts as well as short trip driving. It provides high temperature protection in all grades by exceeding the toughest modern standards for protection against thermal breakdown. Formulated to overcome the stress of stop and go driving. Dynasty Motor Oil provides outstanding protection against viscosity breakdown. Dynasty Motor Oil contains a balanced blend of high performance, high quality base stocks and specially formulated additives. It is engineered to exceed the demands of today's high performance engines that operated under more severe conditions for passenger cars, light trucks, vans and sport utility gasoline engines including light turbocharged systems. Dynasty Motor Oil comes in SAE grade 15W/40 and 20W/50 and meets the requirements of API SJ/CF/CF4, ACEA A2-96#2, A3-98, B2-98, B3-98, E2-96#2, VW 500/501/505, BMW special oil, Mercedes-Benz 229.1, Mercedes Benz 228.1 and Porsche GL.

Supplier: Fortron Automotive Treatments Pty Ltd
14-18 Sangiorgio Court, Osborne Park
Perth, Western Australia 6017
ACN 008 872 197 ABN 12 008 872 197

Phone: (618) 9202 5300 (Monday – Friday 8.00am – 5.00pm)

Fax: (618) 9202 5394
www.fortron.com.au

Emergency Telephone No: 0433 088 498

2. HAZARDS IDENTIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF THE NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC)

Hazard Symbol: Not applicable

Risk Phrase: Not applicable

Safety Phrase: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Description This product consists of highly refined base oils with additives. It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. However, in common with most mineral oils, prolonged and repeated skin contact may cause dermatitis. Handling precautions should be strictly observed.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Refined mineral oil		60 – 100%
Other ingredients determined not to be hazardous	Not required	10-30%

4. FIRST AID MEASURES:

Swallowed: If swallowed DO NOT induce vomiting because of risk of aspiration. Rinse mouth with water immediately. Give water to drink, keep at rest and seek medical attention.

For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 03 4747 000 (Not after May 2005) or 0800 764 766; or a doctor (at once).

Eye: If contact with the eye(s) occur, immediately hold the eye open and wash continuously for at least 15 minutes with fresh running water. Seek medical attention if irritation persists.

Skin: In case of contact, remove contaminated clothing and wash before re-use or discard. Wash gently and thoroughly with water and soap. If irritation develops and persists, seek medical attention.

Inhaled: At ambient/normal handling temperature, inhalation of vapours is normally not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing is irregular or has stopped. Get prompt medical attention.

First Aid Facilities: Safety shower, mild soap and eye wash facilities.

Advice to Doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Flashpoint: > 220°C

Extinguishing Media: Use foam, dry chemical powder, and carbon dioxide.

Unusual Fire & Explosion Hazards: Combustible material, low hazard.



5. FIRE FIGHTING MEASURES: - continued

- Combustion Products: The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of high volatility may increase the hazard. Smoke and carbon monoxide may be formed in the event of incomplete combustion.
- Fire Fighting Precautions: Water for or spray to cool fire-exposed surfaces. Cut off "fuel", depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire. For fires involving this material, do not enter any enclosed or confined space without AS/NZS 1716 approved Self-contained breathing apparatus (SCBA) to protect against the hazardous effects of combustion products or oxygen deficiency.
- Hazchem Code: None Allocated

6. ACCIDENTAL RELEASE MEASURES:

- Emergency Procedures: Remove all sources of ignition. Stop the source of the leak or release and contain spill if possible. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminated soil/vegetation. Take measures to minimize the effects on ground water.
- Methods and Materials for Containment and Clean Up:- Small Spills/Large Spills: Recover by skimming or pumping using explosion-proof equipment or contain spilled liquid with brooms, sand or other suitable absorbent and remove mechanically into containers.

7. HANDLING AND STORAGE:

- Precautions for Safe Handling: Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e., washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.
- Conditions for Safe Storage: Keep containers closed when not in use. Store in cool place and out of direct sunlight. Protect container against physical damage and check regularly for leaks. Prevent small spills and leakages to avoid slip hazard.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards: No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for oil mist are listed below.

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).

Time-weighted average (TWA) is defined as the concentration of that substance over an eight-hour working shift, and apply to an eight-hour day, for a five-day working week over an entire working lifetime. Short Term Exposure Limits (STEL) and Peak Limitations may also be specified for short periods of exposure such as 15 minutes.

SUBSTANCE	Occupational Exposure Limits	TWA	STEL
		mg/m ³	mg/m ³
Oil Mist, Mineral	NOHSC	5	10

Engineering Controls: Use adequate ventilation to keep the airborne concentrations below exposure standards for this product. Local exhaust ventilation and/or enclosure of the process are preferred. Maintain concentration below recommended exposure limits. If risk of overexposure exists, wear SAA approved respirator.

Personal Protective Equipment: *Respiratory Protection:* Airborne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate AS/NZS 1715/1716 approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Skin Protection: Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned. The use of PVC or nitrile gloves is recommended.

Eye Protection: Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Hygiene Recommendations: Keep an eye wash fountain available. Keep safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Amber mobile liquid
Odour:	Mild petroleum odour
pH:	Not applicable
Vapour Pressure:	< 0.1mmhg @ 25°C
Vapour Density:	Not determined
Boiling Point:	> 316°C
Melting Point:	Not determined
Solubility in Water:	Not miscible
Specific Gravity:	0.89 @ 15°C/typical
Flashpoint:	220°C
Flammability Limits:	LEL not applicable UEL not applicable
Auto Ignition Temperature:	Not available

10. STABILITY AND REACTIVITY:

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to Avoid:	Keep away from heat sources, open flames and other sources of ignition.
Incompatible Materials:	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous Decomposition Products:	Product does not decompose at ambient temperatures. Under fire conditions: Smoke and carbon monoxide may be formed in the event of incomplete combustion.
Hazardous Reactions:	Store away from strong oxidizing or combustible materials
Hazchem Code	None allocated

11. TOXICOLOGICAL INFORMATION:

This product is considered to be non-hazardous when used in accordance with good industrial hygiene and the manufactures recommendations.

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Mild irritation of throat,mouth and stomach, may also cause nausea and mild diarrhoea. Aspiration (liquid into lungs) of vomited material may cause pneumontis.
Eye:	May cause irritation on contact. Not expected to cause permanent injury.
Skin:	Low order of acute toxicity. Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possible dermatitis.



Negligible hazard at ambient/normal handling temperatures. Elevated temperatures or mechanical action may form vapours, mists, or fumes, which may be irritating to the eyes, nose, throat and lungs.

11. TOXICOLOGICAL INFORMATION: - continued

Chronic: Prolonged or repeated contact may result in skin irritation leading to dermatitis. Contains lubricating oil base stocks. Base oils of similar composition and refining history have exhibited no carcinogenic activity in laboratory animals.

12. ECOLOGICAL INFORMATION:

In the absence of specific environmental data for this product, this assessment is based on information for general hydrocarbon components found in lubricant mineral oils. Lubricant mineral oils, immediately following a release into the environment, will remain largely on the soil surface, and in water, will remain largely on the water surface. Based on chemical/physical information from the literature for this product category, nor harmful effects to terrestrial or aquatic habitats would be expected. This product is expected to be resistant to biodegradation and to persist in the environment. This product may contain additives for which no environmental data is available. Hence, the above assessment concerns the base oil(s) only.

Ecotoxicity: This material may present environmental risks common to oil spills. Avoid contaminating waterways:

Persistence and Degradability: Non-biodegradable

Mobility: No information is available on this product.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers: This material may present environmental risks common to oil spills. Collect, seal in properly labelled drums for dispose of waste product at an authorised disposal facility, in conformance with State and Federal Land Waste Management Authorities.

14. TRANSPORT INFORMATION:

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and Subsidiary Risk: None Allocated

Packaging Group: None Allocated

Special Precaution for User: None Allocated

Hazchem Code: None Allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road or Rail.

Land Transport (ADG):
Proper Shipping Name: Product is not regulated during transportation.

Air Transport (ICAO/IATA):





Proper Shipping Name: Product is not regulated during transportation.
Marine Transport (IMDG/IMO):
Proper Shipping Name: Product is not regulated during transportation.

15. REGULATORY INFORMATION:

Statement of Hazardous Nature: Not classified as Hazardous according to the criteria of National Occupational Health and Safety Commission (NOHSC)
Hazard Symbol: Not applicable
Risk Phrase: Not applicable
Safety Phrase: Not applicable

16. OTHER INFORMATION:

Date of Issue: 31st March, 2009
MSDS Number: MSDS:203
Issue Number: B

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