

Material Safety Data Sheet

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Infosafe No. LPVLC Issue Date : July 2006 ISSUED by SOUTHERN

Product Name : **SORBO 32 (150 SN) BASE OIL**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SORBO 32 (150 SN) BASE OIL
Company Name SOUTHERN OIL REFINERIES
Address PO Box 140 Wagga Wagga
NSW 2650 Australia
Telephone/Fax Tel:
Number 02 9631 9022
Recommended Use Exclusively for producing lubricant and hydraulic oils.

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Other Information Tests were undertaken on this product and results indicate the product having a high probability of being Non carcinogenic.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | Name | CAS | Proportion |
|--------------------|-----------------|------------|-------------------|
| | Paraffinic oils | Mixture | 60-100 % |
| | Naphthenic Oils | Mixture | 30-60 % |
| | Aromatic oils | Mixture | 0-10 % |

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
Ingestion Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
First Aid Facilities Eye wash and normal washroom facilities.
Advice to Doctor Treat symptomatically. For advice, contact a Poisons Information Centre (Phone eg Australia 131 126).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical, and foam or water mist.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Special Protective Equipment for fire fighters Full protective clothing and self-contained breathing apparatus.
Specific Methods Use water spray to cool fire exposed containers.
Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental

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Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

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| Precautions for Safe Handling | Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with this product, repeated or prolonged skin exposure without protection should be prevented 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 ie. Washing hands prior to eating, drinking, smoking or using toilet facilities. |
| Conditions for Safe Storage | Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations. |
| Corrosiveness | Non corrosive. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
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| National Exposure Standards | No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for oil mist is 5 mg/m ³ . As with all chemicals, exposure should be kept to the lowest possible levels. As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. |
| Biological Limit Values | No biological limit allocated. |
| Engineering Controls | Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. |
| Respiratory Protection | If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices. |
| Eye Protection | Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications. |
| Hand Protection | Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. |
| Body Protection | Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Clear, bright oil. |
| Odour | Negligible. |
| Melting Point | < -9°C (pour point). |
| Boiling Point | > 350°C |
| Solubility in Water | Negligible. |
| Specific Gravity | 0.864 kg/L @ 15°C |
| pH Value | Not available. |
| Vapour Pressure | <0.1 mm Hg @ 20°C |
| Vapour Density (Air=1) | > 2.0 |
| Volatile Component | 15.6% |
| Pour Point | < -9°C. |
| Flash Point | > 200°C (ASTM D93) |
| Flammable Limits - Lower | Not available. |
| Flammable Limits - Upper | Not available. |
| Kinematic Viscosity | 28 - 35 cSt cSt @ 40°C 4.5 - 5.5 cSt @ 100°C |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under normal use conditions. |
| Conditions to Avoid | Heat, direct sunlight, open flames or other sources of ignition. |
| Incompatible Materials | Oxidising agents. |
| Hazardous Decomposition Products | Thermal decomposition and combustion may produce noxious fumes such as oxides of carbon. |
| Hazardous Polymerization | Will not occur. |

11. TOXICOLOGICAL INFORMATION

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| Toxicology Information | No toxicity data available for this product. |
| Inhalation | Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. |
| Ingestion | Ingestion of this product may irritate the gastric tract causing nausea and vomiting. |
| Skin | May cause redness, itching and irritation. |
| Eye | May cause eye irritation, tearing, stinging, blurred vision, and redness. |
| Chronic Effects | Not available. |
| Mutagenicity | Ames Test, Mutagenicity Index: Average < 0.1 This product is non mutagenic. |
| Carcinogenicity | This product is non carcinogenic. |

12. ECOLOGICAL INFORMATION

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|--|--|
| Ecotoxicity | No ecological data is available for this material. |
| Persistence / Degradability | Not available. |
| Mobility | Not available. |
| Environ. Protection | Do not allow product to enter drains, waterways or sewers. |

13. DISPOSAL CONSIDERATIONS

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| Disposal Considerations | Dispose of waste according to federal, EPA and state regulations. |
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14. TRANSPORT INFORMATION

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| Transport Information | Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| U.N. Number | None Allocated |
| Proper Shipping Name | None Allocated |
| DG Class | None Allocated |
| Hazchem Code | None Allocated |
| Packing Group | None Allocated |

15. REGULATORY INFORMATION

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| Poisons Schedule | S5 |
|-------------------------|----|

16. OTHER INFORMATION

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| Date of preparation or last revision of MSDS | MSDS created: July 2006. |
| | ...End Of MSDS... |