



## MATERIAL SAFETY DATA SHEET

### 1 . Chemical & Company Identification

Trade name :	KZN ENGINE OIL 20W50
Supplier :	KZN Oils 45 North Coast Road, Durban, South Africa
Routine inquiries :	+27 31 570 0550
Fax :	+27 31 570 0522
Email :	<a href="mailto:info@kznoils.co.za">info@kznoils.co.za</a>
Chemical Description :	Lubricating Oil

### 2. Composition / Information on Ingredients

Components	Range in %
Solvent dewaxed heavy paraffinic distillate	> 75
Solvent dewaxed residual oil	< 25
Additives which may include detergent-inhibitor, viscosity index improver, pour point depressant, and/or antifoam agent	03/04/09
Zinc alkyl dithiophosphate	< 1

### 3. Hazards Identification

<b>Warning statements:</b>	<b>AVOID PROLONGED OR REPEATED CONTACT WITH USED MOTOR OIL. IF SKIN CONTACT OCCURS, WASH EXPOSED AREAS WITH SOAP AND WATER. LAUNDRER CONTAMINATED CLOTHING.</b>
<b>Eyes:</b>	Expected to cause no more than minor eye irritation characterized by tearing or a burning sensation.
<b>Oral:</b>	If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.
<b>Inhalation:</b>	Breathing the vapour or mist may cause respiratory irritation, discomfort, or other pulmonary effects.
<b>Skin:</b>	Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the defatting action of this material. See Section 16 regarding health hazard concerns for used motor oil.
<b>Long term toxic effects:</b>	The base oil component(s) are not expected to be carcinogenic based on IARC criteria. This product has not been tested as a whole for chronic health effects. See Section 11 for additional information.

### 4. First Aid Measures

<b>Eyes::</b>	Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists, see a doctor.
<b>Skin:</b>	Wash skin thoroughly with soap and water. Launder contaminated clothing. If skin irritation persists or a rash develops as a result of excessive contact, see a doctor.
<b>Ingestion:</b>	If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on advice of medical personnel. If advice cannot be obtained, take person with container and label to nearest emergency treatment center. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	If respiratory irritation or any signs or symptoms as described in this MSDS occur, move the person to fresh air. If any of these effects continue, see a doctor.
<b>Advice to doctor:</b>	None Applicable.



## 5. Fire Fighting Measures

<b>Ignition temp. (degrees c):</b>	Not Determined
<b>Flammable limits (% by volume):</b>	Not Determined
<b>Flash point (degrees c):</b>	> 205 (COC)
<b>Fire extinguishing agents:</b>	According to the National Fire Protection Association Guide, use water fog, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak.
<b>Explosion hazards:</b>	For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

## 6. Accidental Release Measures

<b>In case of spill:</b>	Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water.
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## 7. Handling & Storage

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimised. Water contamination should be avoided.
Misuse of empty containers can be hazardous. DO NOT cut, weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

## 8. Exposure Control / Personal Protection

<b>Eyes:</b>	No special eye protection is usually necessary. Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up.
<b>Skin:</b>	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly. Any routine contact with used motor oil should require the use of protective clothing such as gloves or apron made of neoprene, nitrile, or n-butyl rubber suitable for the application.
<b>Inhalation:</b>	Respiratory protection is normally not required. However, if operating conditions create airborne concentrations that are excessive and may exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as a toxic dust, mist and fume respirator.
<b>Ventilation:</b>	Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the process is preferred in these cases.
<b>Exposure limits:</b>	The ACGIH TLV for mineral oil mists is 5 mg/m <sup>3</sup> for a daily 8-hour exposure. A short term exposure limit (STEL) of 10 mg/m <sup>3</sup> is recommended.



## 9. Physical & Chemical Properties

<b>Note:</b> The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative.	
<b>Appearance &amp; odor:</b>	Pale, reddish brown liquid, mild odor
<b>Boiling point (deg. c):</b>	Not Determined
<b>Vapor pr. (mmhg @ 25 deg. c):</b>	Not Determined
<b>Density (kg/l at 15 deg. c):</b>	0.89
<b>Vapor density (air = 1):</b>	Not Determined
<b>ph of undiluted product:</b>	Not Applicable
<b>Solubility (water):</b>	Negligible
<b>Percent volatile by volume:</b>	Not Determined
<b>Evaporation:</b>	Not Determined
<b>Viscosity (all product grades):</b>	11 – 15 mm <sup>2</sup> /s @ 100 deg. C

## 10. Stability & Reactivity

<b>Hazardous polymerizations:</b>	DO NOT OCCUR
<b>Products of combustion:</b>	Carbon monoxide, carbon dioxide, and aldehydes and ketones, combustion products of nitrogen or sulfur.
<b>Conditions to avoid:</b>	Strong oxidizers such as chlorates, nitrates, peroxides, etc.

## 11. Toxicological Information

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. Avoid prolonged contact with used motor oil. This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, hydrocracking and hydrotreating.

## 12. Ecological Information

<b>Environmental effects:</b>	No specific ecotoxicity data on this product are available. This material may present environmental risks common to oil spills.
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## 13. Disposal Considerations

<b>Waste disposal:</b>	Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.
<b>Remarks:</b>	This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs.

## 14. Transport Information

<b>Transport of dangerous goods:</b>	
<b>UN Number:</b>	Not Applicable
<b>Dangerous Goods Class:</b>	Not Applicable
<b>Proper Shipping Name:</b>	Not Applicable
<b>Hazchem Code (Australia/NZ):</b>	Not Applicable
<b>Additional Information:</b>	None Determined.



## 15. Regulatory Information

<b>Respirator information:</b>	Where local approval authority is absent, respirator users can refer to U.S. NIOSH, European Standard EU-149, or joint Australia-New Zealand AS/NZS 1715/1716 for guidance.
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## 16. Other Information

No specific notes on this product.
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