



Material Safety Data Sheet

1. Chemical product and company identification:

Product identifier	Magnum Engine Oil SAE 5W-40
Product Use	Automotive engine crankcase lubricant
Supplier	Oil4Africa(Pty)Ltd 41 Ilana Street Delville Germiston Gauteng
Emergency telephone number	+27 86 155 5777 PIC Garden City Hospital

2. Hazard identification:

Classification of the substance or mixture:

Not classified as hazardous according to 29 CFR 1910.1200 (2012).

Hazards not otherwise classified:

Defatting to the skin

USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer

Refer Section 11 of this SDS

3. Composition/Information on Ingredients

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

4. First Aid Measures

Description of first aid measures

Eye:	No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin:	No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion:	No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.
Inhalation:	No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.



Most important symptoms and effects, both acute and delayed	
IMMEDIATE HEALTH EFFECTS	
Eye: Skin: Ingestion: Inhalation:	Not expected to cause prolonged or significant eye irritation. Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin. Not expected to be harmful if swallowed. Ingestion of large quantities may cause nausea and diarrhoea. Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.
DELAYED OR OTHER HEALTH EFFECTS	
Not classified	
Indication of any immediate medical attention and special treatment needed	
Note to Physicians:	Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire Fighting Measures	
EXTINGUISHING MEDIA:	Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
PROTECTION OF FIRE FIGHTERS:	
Fire Fighting Instructions:	This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus
Combustion Products:	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of nitrogen



6. Accidental Release Measures

Protective Measures:	Eliminate all sources of ignition in vicinity of spilled material.
Spill Management:	Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

7. Handling and Storage

General Handling Information:	Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Precautionary Measures:	Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.
Static Hazard:	Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.
Conditions for safe storage:	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers



8. Exposure Controls/Personal Protection

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection:	No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection:	No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.
Respiratory Protection:	No respiratory protection is normally required. If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	-	5 mg/m ³	10 mg/m ³	-	-

Consult local authorities for appropriate values.



9. Physical and Chemical Properties

Attention: the data below are typical values and do not constitute a specification.

Colour:	Amber
Physical State:	Liquid
Odor:	Petroleum odour
Odor Threshold:	No data available
pH:	No data available
Vapor Pressure:	No data available
Vapor Density (Air = 1):	No data available
Initial Boiling Point:	No data available
Solubility:	Insoluble in water.Soluble in hydrocarbons
Freezing Point:	No data available
Melting Point:	No data available
Density:	0.865 kg/l @ 15°C (59°F) (Typical)
Viscosity:	14.5 mm ² /s @ 100°C (212°F) (Typical) 90 mm ² /s @ 40°C (104°F) (Typical)
Coefficient of Therm. Expansion / °F:	No data available
Evaporation Rate:	No data available
Decomposition temperature:	No data available
Octanol/Water Partition Coefficient:	No data available

FLAMMABLE PROPERTIES:

Flammability (solid, gas):	No data available
Flashpoint:	(Pensky-Martens Closed Cup) >210 °C (435 °F) (Typical)
Autoignition:	No data available
Flammability (Explosive) Limits (% by volume in air):	Lower: No data available Upper: No data available

10. Stability and Reactivity

Reactivity:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc
Chemical Stability:	This material is considered stable
Incompatibility With Other Materials:	Reactive or incompatible with the following materials: oxidising materials.
Hazardous Decomposition Products:	None known
Hazardous Polymerization:	Hazardous polymerization will not occur.



11. Toxicological Information	
Information on toxicological effects	
Serious Eye Damage/Irritation:	The eye irritation hazard is based on evaluation of data for product components.
Skin Corrosion/Irritation:	The skin irritation hazard is based on evaluation of data for product Components.
Skin Sensitization:	The skin sensitization hazard is based on evaluation of data for product components.
Acute Dermal Toxicity:	The acute dermal toxicity hazard is based on evaluation of data for product components.
Acute Oral Toxicity:	The acute oral toxicity hazard is based on evaluation of data for product Components.
Acute Inhalation Toxicity:	The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate:	Not Determined
Germ Cell Mutagenicity:	The hazard evaluation is based on data for components or a similar material.
Carcinogenicity:	The hazard evaluation is based on data for components or a similar material.
Reproductive Toxicity:	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Single Exposure:	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Repeated Exposure:	The hazard evaluation is based on data for components or a similar material.
ADDITIONAL TOXICOLOGY 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. This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).	



12. Ecological Information

Ecotoxicity:	This material is not expected to be harmful to aquatic organisms.
Mobility:	No data available
Persistence and Degradability:	This material is not expected to be readily biodegradable.
Potential to Bioaccumulate:	Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

13. Disposal Considerations

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. Transport Information

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

15. Regulatory Information

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1
01-2A=IARC Group 2A
01-2B=IARC Group 2B

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIIC (Australia), DSL (Canada), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (United States).

CHEMICAL SAFETY ASSESSMENT

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.
A Chemical Safety Assessment has not been carried out for the mixture itself.



16. Other Information

NFPA RATINGS:	Health: 2	Flammability: 1	Reactivity: 0
HMIS RATINGS:	Health: 0	Flammability: 1	Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value
TWA - Time Weighted Average
STEL - Short-term Exposure Limit
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists

IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute
SDS - Safety Data Sheet
NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer
OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit
EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.