



GULF OIL Middle East Ltd

Mitsubishi Motors Middle East and Africa FZC

MSDS – Material Safety Data Sheet Mitsubishi Engine Oil 20W50 SL/CF-4

1. Chemical and Company Identification

Trade Name	Mitsubishi Engine Oil 20W50 SL/CF-4
Product Code	To be allotted
Supplier	Gulf Oil Middle East Limited, PO BOX 17068, Jebel Ali Free Zone, Dubai, UAE
Routine Enquiries	+9714 886 6081
Fax	+9714 883 6080
Emergency Contact (24 Hours)	+971506402887/+919820187001
Chemical Description	Lubricating Oils

2. Composition and Ingredients

Components	CAS No.	Range in %
Hydrotreated Heavy Paraffinic Distillate	64742547	<7
Solvent Refined Heavy Paraffinic Distillate	64741884	<7
Solvent dewaxed heavy paraffinic distillate	64742650	75-85
Additives which may include detergent-inhibitor, viscosity index improver, pour point depressant, and/or antifoam agent: contains a maximum 10% (in the additive package) solvent dewaxed light paraffinic distillate base oil as a carrier fluid (CAS 64742569)		15-20
Zinc alkyl dithiophosphate	68649423	<3

3. Hazards Identification

Warning Statements	AVOID PROLONGED OR REPEATED CONTACT WITH USED MOTOR OIL. IF SKIN CONTACT OCCURS, WASH EXPOSED AREAS WITH SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING
Eyes	Expected to cause no more than minor eye irritation
Oral	If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur
Inhalation	Breathing the vapour or mist at concentrations in air that exceed the ACGIH TLV can cause respiratory irritation or discomfort
Skin	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
Long Term Toxic Effects	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



GULF OIL Middle East Ltd

Mitsubishi Motors Middle East and Africa FZC

4. First Aid Measures

Eyes	Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor
Skin	Wash skin thoroughly with soap and water. Launder contaminated clothing
Ingestion	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
Inhalation	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
Advice to Doctor	None applicable

5. Fire Fighting Measures

Ignition Temperature, deg C	Not determined
Flammable Limits (% by Volume)	Not determined
Flash Point, deg C	More than 204 (COC) (for all the product grades)
Fire Extinguishing Agents	According to the US National Fire Protection Association Guide, use water spray, 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
Explosion Hazards	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

In case of Spill	Stop the source of the leak or release and contain spill if possible. Ventilate the 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
-------------------------	---

7. Handling and 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.



GULF OIL Middle East Ltd

Mitsubishi Motors Middle East and Africa FZC

8. Exposure Control/Personal Protection

Eyes	No special eye protection is usually necessary
Skin	Avoid contact with skin or street clothing. Skin contact can be minimised by wearing protective clothing including coveralls, gloves and boots. Gloves and boots should be resistant to chemicals and petroleum distillates. 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 daily. 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
Inhalation	Respiratory protection is normally not required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator
Ventilation	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 processes is preferred in these cases
Exposure Limits	The ACGIH TLV for mineral oil mists is 5 mg/m ³ for a daily 8-hour exposure

9. Physical and Chemical Properties

Note: 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

Appearance and Odor	Bright and Clear liquid, mild odor
Boiling Point	Not determined
Vapor Pr (mmHG @ 25 deg C)	Not determined
Density(kg/l at 15 deg C)	0.8500 – 0.8900
Vapor Density (Air=1)	Not determined
Undiluted product's pH	Not applicable
Solubility in Water	Negligible
Percent Volatile by Volume	Not determined
Evaporation	Not determined
Viscosity	16.3 TO 19.9 cst at 100 deg C

10. Stability and Reactivity

Hazardous Polymerizations	DO NOT OCCUR
Products of Combustion	Carbon monoxide, carbon dioxide, and aldehydes and ketones, combustions products of nitrogen and sulfur
Conditions to Avoid	Strong oxidizers as chlroates, nitrates, peroxides etc



GULF OIL Middle East Ltd

Mitsubishi Motors Middle East and Africa FZC

11. Toxicological Information

General	<p>This product contains petroleum base oils which may be refined by various processes including severe solvent extraction hydrocracking and hydrotreating. These oils have not been listed in the US National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.</p> <p>This product contains an alkylated phenol that has caused increased blood clotting time when administered orally to laboratory animals. While normal use of this material should not result in any adverse effects, we strongly recommend that the precautions outlined in this MSDS be followed to reduce skin contact and keep potential inhalation of mists to a minimum.</p> <p>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</p>
----------------	---

12. Ecological Information

Environmental Effects	<p>No specific toxicology data on this product is available.</p> <p>This material may present environmental risks common to oil spills</p>
------------------------------	--

13. Disposal Considerations

Waste Disposal	Place contaminated materials in disposable containers and dispose off in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material
Remarks	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

Transportation of Dangerous Goods	
UN Number	Not Applicable
Dangerous Goods Class	Not Applicable
Proper Shipping Name	Not applicable
Hazchem Code	Not applicable
Additional Information	None Determined

15. Regulatory Information

Respirator Information	In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet either the above or local standard for approved respirators
-------------------------------	---

15. Other Information – No specific notes on this product.

<p>To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the internet too so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued. Certain hazards are described herein, however, these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.</p> <p>Customers are encouraged to review this information, follow precautions and comply with all applicable laws and regulations regarding the use and disposal of this product. For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative. The final determination of the suitability of any material is the sole responsibility of the user.</p>
