

SECTION 1. Chemical and Company Identification

Revision date: 05/18/2009

Product Name	QMI MOE – Motor Oil Enhancer – # GL1910
Supplier	QMI, Inc., 3606 Craftsman Blvd, Lakeland, FL 33803
Routine Enquiries	863-665-3338
Fax	863-667-0848
Emergency Contact	CHEM-TEL: 1-800-255-3924
Intended Use	Motor Oil Enhancer
Chemical Family	Petroleum Hydrocarbon
Chemical Description	Mineral Base Oil, Petroleum Derived

SECTION 2. Composition and Ingredients

Components	CAS No.	Fraction, %
Distillates and residual oils	64742-65-0	97
Alkoxy sulfolane	Proprietary	3

SECTION 3. Hazards Identification

Warning Statements	NO SIGNIFICANT HAZARD. (Hazard Class 4 as per GOST 12.1.007-76 "Hazardous Substances, Classification and General Safety Requirements")
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 of vapour or mist at concentrations in air than exceed the maximum permissible concentration in production area can cause respiratory irritation and 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
Long Term Toxic Effects	The base oil components 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

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPI</u>
NFPA	1	1	0	
HMIS	1	1	0	x

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SECTION 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 and rub with any emollient cream. Launder contaminated clothing. If skin irritation persists or a rash develops as a result of excessive contact, see a doctor
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	This product may present an aspiration hazard. See related comments in this MSDS. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours

SECTION 5. Fire Fighting Measures

Flash Point	180 deg. C / 355 deg. F
Fire Extinguishing Rules	According to applicable Fire Protection 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-containing breathing apparatus to protect against the hazardous nature of combustion products or oxygen deficiency

SECTION 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 ground water or surface water.
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SECTION 7. Handling and Storage

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Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Guarantee-covered period of storage is 1 year from the date of manufacture. At the expiration of a guarantee-covered period of storage, this product may be used subject achievement of positive results of the tests for conformity to standard technical documentation.

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.

SECTION 8. Exposure Control/Personal Protection

Eyes	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
Skin	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
Inhalation	Respiratory protection is not usually 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 established requirements for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases
Exposure Limits	The maximum permissible concentration for mineral oil mists in air of production area is 5 mg/m ³ and hydrocarbons 300 mg/m ³ for a daily 8 hour shift

SECTION 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 Guaranteed Specifications and can be obtained from our Marketing Representative.

Appearance and colour	Red low viscous liquid
Boiling range	Not determined
Vapor Pr (mmHG @ 25 deg C)	Not determined
Density	7.8 lbs/gal
Undiluted product's Ph	Not applicable
Solubility in Water	Negligible
Percent Volatile by Volume	Not determined
Evaporation	Not determined
Kinematic viscosity (cSt @40 deg C)	100

SECTION 10. Stability and Reactivity

Stability	This product is stable
Hazardous Polymerizations	DO NOT OCCUR
Products of Combustion	Carbon monoxide CO, carbon dioxide CO ₂ and naphthenic acids may be formed
Conditions to Avoid	Strong oxidisers like chlorates, nitrates, peroxides, etc.

SECTION 11. Toxicological Information

General	This product contains petroleum distillates and residual oils which may be refined by various processes including solvent extraction, selective treatment and hydro-treating. 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. Not classified or listed by OSHA, EU and ACGIH.
Routes of entry	Skin, eyes, ingestion and inhalation
Target organs	Contains material which may cause damage to the following organs: liver, thyroid.

SECTION 12. Ecological Information

Environmental Effects	This product may present environmental risks common to oil spills. This product is expected to have low aquatic toxicity (LD50>1000 mg/l) and is not considered to represent a long-term danger to the aquatic environment
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SECTION 13. Disposal Considerations

Waste Disposal	Place contaminated material in a disposable container and dispose off in a manner consistent with applicable regulations. Contact local environmental/health authorities for approved disposal
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

SECTION 14. Transport Information

UN Number	Not applicable
Dangerous Goods Class	Not applicable
Proper Shipping Name	QMI MOE (Motor Oil Enhancer)
Hazchem Code	Not applicable
Additional Information	None determined

SECTION 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
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16. Other Information — No specific notes on this product.

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. 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.