



Quality Endurance Passion

No. : 0010-2E  
 Issuing Date : May 1, 2000  
 Revision Date : February 28, 2016

## SAFETY DATA SHEET

Product Name Gulf MIRAGE 10W-60

### 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name : Gulf MIRAGE 10W-60  
 Identification of the supplier : GOTCO-Japan, Limited.  
 Address : Tobunsha BLDG.5F,2-5-1,Kudan Minami,Chiyoda-Ku,Tokyo 102-0074 Japan  
 Charge section : Motor Oil Division  
 TEL : +81-3-3230-0638  
 Fax : +81-3-3230-0567  
 Acceptance date and time : Monday to Friday 9:00-17:00

### 2 HAZARDS IDENTIFICATION

Hazard category	Category
Flammable liquids :	No Classification
Acute toxicity(oral) :	No Classification
Acute toxicity(dermal) :	No Classification
Serious eye damage / eye irritation :	No Classification
Specific target organ systemic toxicity following single exposure :	No Classification
Specific target organ systemic toxicity following repeated exposure :	No Classification
Aspiration hazard :	No Classification
Acute hazards to the aquatic environment :	Category 3
Chronic hazards to the aquatic environment :	Category 3

#### LABEL ELEMENTS

Precautionary : Not applicable  
 Signal word : Not applicable  
 Hazard Statements : Harmful to aquatic life  
 Harmful to aquatic life with long lasting effects

#### Precautionary Statements

Prevention : Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves/ protective clothing/ eye protection / face protection.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Avoid release to the environment.  
 Response : IF SWALLOWED: immediately call a POISON CENTER or doctor / physician.



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IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.  
 Collect spillage.

Storage : The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.

Containers that have been opened must be tightly sealed.

Disposal : Dispose of contents / container in accordance with local / regional / national / international regulations.  
 If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture :	Mixture		
Chemical Name :	Petroleum hydrocarbon and additives		
Ingredients and Concentration :	Synthetic base oil	80~75	%mass
	Additives	20~25	%mass

### 4 FIRST AID MEASURES

Inhalation :	IF INHALED: Remove Victim to fresh air and keep at rest in a position comfortable for breathing. Cover the body with blankets to keep warm and quiet. If you feel unwell, seek medical advice.
Skin Contact :	Immediately flush skin with large amounts of water. Wash contaminated clothing before reuse.
Eye Contact :	Rinse with clean water carefully for several minutes. Remove contact lenses if present and if removal is easy, then continue rinsing. Rinse for 10minutes at a minimum and seek medical attention.
If eye irritation persists:	Get medical attention / benefits.
Ingestion :	Do not induce vomiting. Drink [One glass] [two glasses] of water. Call a physician [or poison control center] immediately.

### 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media : Mist of loaded liquid , dry chemicals, carbon dioxide, fire foam and dry sand are effective.  
 In case of a large-scale fire, it is effective to block air by using a



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Extinguishing Media to Avoid :	foam.
Fire Fighting :	Use of straight steam of water can cause a risk of spreading fire. Spray water to the surrounding facilities for cooling. Keep unauthorized persons off the site of fire and the surroundings. Even after extinction, cool containers thoroughly with plenty of water.
Specific hazards arising from the chemical :	In some cases of fire, may release irritant gases. When burnt, may generate carbon monoxide and other toxic gases.
Special protective equipment and precautions for fire fighters :	Wear fire / flame resistant / retardant clothing. Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious protective equipments and gloves. Use air-breathing apparatus and protective clothing whenever necessary.

## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :	Wear protective equipment when working. Remove nearby potential ignition sources immediately. When mist is generated, use respiratory equipment to prevent inhalation of mist.
Environmental precautions :	Do not touch or walk through spillage. Prevent spreading of oil spill with earth and sands, sandbags, or other proper materials and use care not to allow the oil spill to flow to street drains, sewer systems and rivers. At sea, install oil spill containment booms to prevent spreading of spills and absorb with absorption mat or other proper materials.
Methods and materials for containment and cleaning up :	In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper materials. In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty containers to the extent possible. If leaked indoors, open windows and doors and ventilate adequately.
Prevention of second accident :	In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and spreading of spillage. Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely, and ventilate and clean the site and the surroundings.



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### 7 HANDLING AND STORAGE

#### Handling

Technical Measures : In case of vapor / mist dispersion, install a closed system, local ventilation system and / or other proper equipment for the sources of vapor/mist generation. Keep away from any possible contact with sparks, open flames, and high-temperature materials and do not allow release of vapor without justification. Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging. Use pumps or other proper equipment for taking out from containers. Do not siphon with your mouth using a tube. Do not drink. When mist is generated, use respiratory equipment to prevent inhalation of mist.

Ventilation requirements : Maintain adequate ventilation when handling indoors.

Precautions : Wash hands and face thoroughly after handling. Be careful with fire.

Precautions for safe handling : Avoid falling, dropping, exposing to shock or dragging of containers. Wear protective gloves when opening containers to eliminate a risk of hand injury.

Safety precautions : Avoid contact with halogens, strong acids, alkalis, oxidizing substances and do not storage in the same place. When opening the container, wear protective gloves as there is a risk of cutting hands.

#### Storage

Storage Conditions : Store in a well ventilated, cool, dry, dark place, protecting from direct sunlight and keeping away from any potential ignition sources and high-temperature materials. Store tightly stopped after use to prevent possible contamination with dust and moisture. Preferably store locked up in a proper storage area.

Safety adequate container materials : Use spill-proof containers that are free of damage / corrosion.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls : In case of mist generation, enclose the source of mist generation, or install a ventilation system. Install eye cleaning and body cleaning equipment near the handling site.

#### Control parameters

Exposure Limits : Not established  
 Allowable Limits : When mists / aerosols may occur, the following are recommended.



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Japan Society for Occupational ACGIH TLV	TWA: 3mg/m <sup>3</sup> (as for mineral oil mist) TWA: 5mg/m <sup>3</sup> (as for mineral oil mist)
Personal Protective Equipment	
Respiratory Protection :	Not needed under normal conditions, but wear a gas mask (against organic gases) whenever required.
Eye / face protection :	In case of exposure to splashes, wear ordinary type goggles.
Hand protection :	In case of prolonged or repeated exposure, wear oil-resistant hand protection.
Skin Protection :	In case of handling over a prolonged period of time or in case of exposure to oil, wear oil-resistant, long-sleeved work clothing.
Hygiene Measures	Take off contaminated clothing and wash thoroughly before reuse. Wash hands thoroughly after handling.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

Product	
Physical State :	Liquid
Form :	Liquid
Color :	Light brown
Vapor density :	No data
Density (15°C g/cm <sup>3</sup> ) :	0.865
Solubility (water) :	Insoluble
Pour Point :	-45°C
Flash Point :	230°C(Cleveland Open Cup)
Auto-ignition :	No data
explosive limits:	No data
Pyrophoric	
(Reactivity with water):	None
Oxidizing properties :	Not Applicable
Explosive properties:	Not Applicable

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## 10 STABILITY AND REACTIVITY

Chemical stability :	Stable when stored or preserved in a dark place at room temperature.
Possibility of hazardous reactions :	Keep away from any possible contact with strong oxidizing agents.
Conditions to avoid :	Contact with incompatible hazard substances Prolonged heating, open flames and ignition sources
Incompatible materials :	Use care to keep away from any possible contact with halogens, strong acids, alkalis, and acidifying substances.
Hazardous decomposition products :	When burnt, may release carbon monoxide and other gases.



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### 11 TOXICOLOGICAL INFORMATION

#### Product

Acute toxicity(oral) :	LD <sub>50</sub> (Rat): ≥5,000mg/kg (Base Oil) For mixtures, hazard category was identified based on the classification criteria for mixtures.
Acute toxicity(dermal) :	LD <sub>50</sub> (Rat): ≥5,000mg/kg (Base Oil) For mixtures, hazard category was identified based on the classification criteria for mixtures.
Acute toxicity(Inhalation) :	LC <sub>50</sub> (Rat): ≥5mg/kg (Base Oil) For mixtures, hazard category was identified based on the classification criteria for mixtures.
Skin corrosion/ irritation :	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Serious eye damage / irritation :	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Respiratory or Skin sensitization :	Not known For mixtures, hazard category was identified based on the classification criteria for mixtures.
Germ Cell mutagenicity :	Not known
Carcinogenicity :	In IARC, the highly purified oil is classified into Group 3 (which cannot be classified as carcinogenic to the person), ACGIH also has almost same classification. In EU, the classification of carcinogenic substances does not have to be applied. The skin exposure test to various animals showed base oil had no carcinogenic. For mixtures, hazard category was identified based on the classification criteria for mixtures.
Reproductive toxicity :	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect	
Single exposure :	Not known
Multi exposure :	Not known
Respiratory toxic :	For mixtures, hazard category was identified based on the classification criteria for mixtures.

### 12 ECOLOGICAL INFORMATION

#### Ecotoxicity

Acute toxicity :	Harmful to aquatic life
Chronic toxicity :	Harmful to aquatic life with long lasting effects
Persistence and	None known



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degradability :  
 Bioaccumulative potential : Not known  
 Mobility in soil : Not known  
 Other hazards : Not known

### 13 DISPOSAL CONSIDERATIONS

Disposal methods : Dispose of contents/container in accordance with local/regional/national /international regulations.  
 Every customer/user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body

### 14 TRANSPORT INFORMATION

UN Classification :  
 UN number : Not applicable  
 UN Class : Not applicable  
 Package Code : Not applicable

National regulations(Japan)

SEA(IMDG) : Not applicable  
 AIR(IATA) : Not applicable

Specific security precaution

and condition of transportation : Transport containers without causing any significant friction or shaking.

### 15 REGULATORY INFORMATION

Pollution Release and  
 Transfer Register(PRTR) : Not regulated  
 Fire Service Law(Japan) : Category 4th,Flammable Liquids, Class #4 Petroleum  
 Poisonous & Deleterious  
 Substance Control Act : Not regulated  
 SEA(IMDG) : Not applicable

### 16 OTHER INFORMATION

References : •Advice on Allowable concentration, Japan Society for Occupational Health(2012)  
 •ECHA (European Chemicals Agency), website "ECHA CHEM", Information on Registered Substances (2011). SDS EU suppliers (2011)  
 •IARC Monographs Programme on the Evaluation of Carcinogenic Risk to



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Humans (2006)

•American conference of Governmental Industrial Hygienists(ACGIH)

Disclaimer : This Safety Data Sheet (SDS) is provided to businesses dealt with as reference information to ensure safe handling of hazardous chemical products. As a business operator dealing with this, please use it after understanding that it is necessary to take appropriate measures according to the actual condition of individual handling etc. at your own risk by referring to this. Therefore, this data sheet itself is not a safety guarantee. In addition, contents may be changed in future due to revision of various laws and regulations and revision of product information.