Shell Morlina Oil HS 10
MSDS# 10505
Version 1.0
Effective Date 08/07/2008
According to OSHA Hazard Communication Standard, 29 CFR

## **Material Safety Data Sheet**

## 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name** 

Shell Morlina Oil HS 10

Uses

Machine oil.

Manufacturer/Supplier

: SOPUS Products

PO BOX 4427

Houston, TX 77210-4427

USA

MSDS Request

: 877-276-7285

**Emergency Telephone Number** 

Spill Information
Health Information

: 877-242-7400

mation : 877-504-9351

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration		
Distillates (petroleum),	64742-53-6	60.00 - 100.00 %		
hydrotreated light naphthenic Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	10.00 - 30.00 %		

Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

#### 3. HAZARDS IDENTIFICATION

Appearance and Odour	Emergency Overview : Pale straw. liquid Slight hydrocarbon
Health Hazards Safety Hazards Environmental Hazards	<ul> <li>Harmful: may cause lung damage if swallowed.</li> <li>Not classified as flammable but will burn.</li> <li>Not classified as dangerous for the environment.</li> </ul>

**Health Hazards** 

Inhalation : Under normal conditions of use, this is not expected to be a

primary route of exposure.

Skin Contact : Repeated exposure may cause skin dryness or cracking.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Harmful: may cause lung damage if swallowed.

Other Information : Used oil may contain harmful impurities.

Signs and Symptoms

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest

coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Defatting dermatitis signs and symptoms may include a huming sensation and/or a dried/cracked appearance.

a burning sensation and/or a dried/cracked appearance. Ingestion may result in nausea, vomiting and/or diarrhoea.

FEB-10-2009 12:21 P.02

> Shell Morlina Oil HS 10 MSDS# 10505 Version 1.0 Effective Date 08/07/2008 According to OSHA Hazard Communication Standard, 29 CFR

### **Material Safety Data Sheet**

**Aggravated Medical** Condition

: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this

material: Skin.

**Environmental Hazards** Additional Information

Not classified as dangerous for the environment.

Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

## 4. FIRST AID MEASURES

No treatment necessary under normal conditions of use. If Inhalation

symptoms persist, obtain medical advice.

Remove contaminated clothing. Flush exposed area with water **Skin Contact** 

and follow by washing with soap if available. If persistent

irritation occurs, obtain medical attention.

Flush eye with copious quantities of water. If persistent **Eye Contact** 

irritation occurs, obtain medical attention.

If swallowed, do not induce vomiting: transport to nearest Ingestion

medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever

greater than 101° F (37° C), shortness of breath, chest congestion or continued coughing or wheezing.

Treat symptomatically. Potential for chemical pneumonitis. **Advice to Physician** 

Consider: gastric lavage with protected airway, administration of activated charcoal. Call a doctor or poison control centre for

guidance.

#### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

: 135 °C / 275 °F Flash point

Typical 1 - 10 %(V)(based on mineral oil) Upper / lower

Flammability or **Explosion limits** 

> 320 °C / 608 °F Auto ignition temperature

Hazardous combustion products may include: A complex Specific Hazards

mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic

Suitable Extinguishing

Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Do not use water in a jet. **Unsuitable Extinguishing** 

Media

**Protective Equipment for** 

**Firefighters** 

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space. FEB-10-2009 12:21 P.03

Shell Mortina Oil HS 10 MSDS# 10505 Version 1.0 Effective Date 08/07/2008 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **Material Safety Data Sheet**

## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

Protective measures : Avoid contact with skin and eyes. Use appropriate containment

to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or

other appropriate barriers.

Clean Up Methods Slippery when spilt. Avoid accidents, clean up immediately.

Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice Local authorities should be advised if significant spillages

cannot be contained.

#### 7. HANDLING AND STORAGE

General Precautions : Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols. Properly dispose of any

contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of

this material.

Handling : Avoid prolonged or repeated contact with skin. Avoid inhaling

vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment

should be used.

Storage : Keep container tightly closed and in a cool, well-ventilated

place. Use properly labelled and closeable containers. Storage

Temperature: 0 - 50 °C / 32 - 122 °F

Recommended Materials : For containers or container linings, use mild steel or high

density polyethylene.

Unsuitable Materials : PVC.

Additional Information : Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational Exposure Limits**

Material	Source	Туре	ppm	mg/m3	Notation
Distillates	ACGIH	TWA(Mist.)		5 mg/m3	
(petroleum)					Ì
hydrotreate					
d light naphthenic					

FEB-10-2009 12:21 P.04

Shell Morlina Oil HS 10
MSDS# 10505
Version 1.0
Effective Date 08/07/2008
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

## **Material Safety Data Sheet**

Distillates (petroleum)	ACGIH	STEL(Mist.)		10 mg/m3	
hydrotreate d light naphthenic					
Distillates (petroleum)	OSHA Z1	PEL	500 ppm	2,000 mg/m3	
hydrotreate d light naphthenic					
Distillates (petroleum)	OSHA Z1A	TWA	400 ppm	1,600 mg/m3	ļ
hydrotreate d light naphthenic	,				
Distillates (petroleum) , hydrotreate d light paraffinic	ACGIH	TWA(Mist.)		5 mg/m3	
Distillates (petroleum) , hydrotreate d light	ACGIH	STEL(Mist.)		10 mg/m3	
paraffinic Oil mist,	ACGIH	TWA(Mist.)		5 mg/m3	
mineral Oil mist, mineral	ACGIH	STEL(Mist.)		10 mg/m3	

**Exposure Controls** 

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Personal Protective Equipment

Respiratory Protection

Personal protective equipment (PPE) should meet

recommended national standards. Check with PPE suppliers. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the

FEB-10-2009 12:21 P.05

> Shell Morlina Oil HS 10 MSDS# 10505 Version 1.0 Effective Date 08/07/2008 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **Material Safety Data Sheet**

specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].

**Hand Protection** 

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Eye Protection** 

Wear safety glasses or full face shield if splashes are likely to

**Protective Clothing** 

Skin protection is not required under normal conditions of use.

It is good practice to wear chemical resistant gloves.

**Monitoring Methods** 

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also

be appropriate.

**Environmental Exposure** 

Controls

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Pale straw liquid Appearance Slight hydrocarbon Odour

Not applicable. pΗ

Initial Boiling Point and **Boiling Range** 

> 280 °C / 536 °F estimated value(s)

Flash point : 135 °C / 275 °F

Upper / lower Flammability

Typical 1 - 10 %(V) (based on mineral oil)

or Explosion limits

: > 320 °C / 608 °F Auto-ignition temperature

< 0.5 Pa at 20 °C / 68 °F (estimated value(s)) Vapour pressure

Specific gravity 0.872 Water solubility

n-octanol/water partition

Negligible.

> 6 (based on information on similar products)

coefficient (log Pow) Kinematic viscosity

10 mm2/s at 40 °C / 104 °F > 1 (estimated value(s)) : Data not available

Vapour density (air=1) Evaporation rate (nBuAc=1)

5/9

FEB-10-2009 12:21

Shell Morlina Oil HS 10
MSDS# 10505
Version 1.0
Effective Date 08/07/2008
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

## **Material Safety Data Sheet**

# 10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Materials to Avoid Hazardous Decomposition Strong oxidising agents.

Products

Hazardous decomposition products are not expected to form

during normal storage.

## 11. TOXICOLOGICAL INFORMATION

**Basis for Assessment** 

Information given is based on data on the components and the

toxicology of similar products.

**Acute Oral Toxicity** 

Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat Aspiration into the lungs may cause chemical pneumonitis

which can be fatal.

Acute Dermal Toxicity
Acute Inhalation Toxicity

Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit Not considered to be an inhalation hazard under normal

conditions of use.

Skin Irritation

Expected to be slightly irritating. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Expected to be slightly irritating.

Eve Irritation

:

Inhalation of vapours or mists may cause irritation.

Respiratory Irritation Sensitisation

Not expected to be a skin sensitiser.

Repeated Dose Toxicity

: Not expected to be a hazard.

Mutagenicity

Not considered a mutagenic hazard.

Carcinogenicity

Product contains mineral oils of types shown to be non-

carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the

International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic

effects.

Reproductive and Developmental Toxicity Additional Information Not expected to be a hazard.

: Used oils may contain harmful impurities that have

accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

## 12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity** 

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Shell Morlina Oil HS 10
MSDS# 10505
Version 1.0
Effective Date 08/07/2008
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

## **Material Safety Data Sheet**

Mobility : Liquid under most environmental conditions. Floats on water. If

it enters soil, it will adsorb to soil particles and will not be

mobile

Persistence/degradability : Expected to be not readily biodegradable. Major constituents

are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation : Contains components with the potential to bioaccumulate.

Other Adverse Effects Product is a mixture of non-volatile components, which are not

expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical

ozone creation potential or global warming potential.

#### 13. DISPOSAL CONSIDERATIONS

Material Disposal Recover or recycle if possible. It is the responsibility of the

waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in

drains or in water courses.

Container Disposal : Dispose in accordance with prevailing regulations, preferably

to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Local Legislation : Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

#### 14. TRANSPORT INFORMATION

#### US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

#### **IMDG**

This material is not classified as dangerous under IMDG regulations.

#### IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

#### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### Federal Regulatory Status

#### **Notification Status**

TSCA All components listed.
EINECS All components listed.
DSL All components listed.

FEB-10-2009 12:21 P.08

> Shell Morlina Oil HS 10 MSDS# 10505 Version 1.0 Effective Date 08/07/2008 According to OSHA Hazard Communication Standard, 29 CFR

## **Material Safety Data Sheet**

## Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Triphenyl phosphate (115-86-6)

#### SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard.

#### State Regulatory Status

## California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### **New Jersey Right-To-Know Chemical List**

Distillates (petroleum), hydrotreated light naphthenic Listed. (64742-53-6) Distillates (petroleum), hydrotreated light paraffinic (64742- Listed. Listed. Triphenyl phosphate (115-86-6)

### Pennsylvannia Right-To-Know Chemical List

Listed. Distillates (petroleum), hydrotreated light naphthenic (64742-53-6) Distillates (petroleum), hydrotreated light paraffinic (64742- Listed. Listed. Triphenyl phosphate (115-86-6)

#### 16. OTHER INFORMATION

NFPA Rating (Health, Fire. Reactivity)

: 0, 1, 0

**MSDS Version Number** 

: 1.0

**MSDS Effective Date** 

: 08/07/2008

**MSDS Revisions** 

: A vertical bar (I) in the left margin indicates an amendment

from the previous version.

**MSDS** Regulation

The content and format of this MSDS is in accordance with the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**MSDS Distribution** 

The information in this document should be made available to

all who may handle the product.

FEB-10-2009 12:21 P.09

Shell Morlina Oil HS 10
MSDS# 10505
Version 1.0
Effective Date 08/07/2008
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

**Material Safety Data Sheet** 

Disclaimer

: The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

9/9
Print Date 10/22/2008 MSDS\_US