1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Material Name : Shell Helix Ultra Racing 10W-60

Uses : Engine oil.

Product Code : 901L3254

Manufacturer/Supplier : Shell India Markets Private Limited

2nd Floor, Campus 4A RMZ Millenia Park

143 Dr. MGR Road, Perungudi

CHENNAI 600096 India

Telephone : (+91) 04443450000 **Fax** : (+91) 04443451516

Emergency Telephone

Number

: +91 22 6516 1058

2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Description : A blend of severely hydrotreated slack wax and additives.

Highly refined mineral oil.

Hazardous Components

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Alkaryl amine	36878-20-3	253-249-4		R53	< 3.00 %
Alkylated phenol ester	125643-61-0	406-040-9		R53	< 3.00 %
Zinc alkyl dithiophosphate	68649-42-3	272-028-3	Xi, N	R38; R41; R51/53	< 2.40 %

Additional Information : The highly refined mineral oil contains <3% (w/w) DMSO-

extract, according to IP346. Refer to chapter 16 for full text of

EC R-phrases.

3. HAZARDS IDENTIFICATION

EC Classification : Not classified as dangerous under EC criteria.

Health Hazards : Not expected to be a health hazard when used under normal

conditions. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful

impurities.

Signs and Symptoms : Oil acne/folliculitis signs and symptoms may include formation

of black pustules and spots on the skin of exposed areas.

Ingestion may result in nausea, vomiting and/or diarrhoea.

Safety Hazards Not classified as flammable but will burn.

Environmental Hazards Not classified as dangerous for the environment.

4. FIRST AID MEASURES

: Not expected to be a health hazard when used under normal **General Information**

conditions.

Inhalation No treatment necessary under normal conditions of use. If

symptoms persist, obtain medical advice.

Skin Contact Remove contaminated clothing. Flush exposed area with water

and follow by washing with soap if available. If persistent

irritation occurs, obtain medical attention.

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

irritation occurs, obtain medical attention.

In general no treatment is necessary unless large quantities Ingestion

are swallowed, however, get medical advice.

Advice to Physician : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards Hazardous combustion products may include: A complex

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

compounds.

Suitable Extinguishing

Media

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

Unsuitable Extinguishing

Media

: Do not use water in a jet.

Protective Equipment for

Firefighters

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

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 the 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.

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

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

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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. Store at

ambient temperature.

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

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m3	Notation
Oil mist, mineral	IN OEL	TWA(Mist.)		5 mg/m3	
	IN OEL	STEL(Mist.)		10 mg/m3	
	ACGIH	TWA(Inhala ble fraction.)		5 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

: Personal protective equipment (PPE) should meet

recommended national standards. Check with PPE suppliers.

Respiratory Protection: 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 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

occur.

Protective Clothing : Skin protection not ordinarily required beyond standard issue

work clothes.

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

Appearance : Amber. Liquid at room temperature.

Odour : Slight hydrocarbon. pH : Not applicable.

Initial Boiling Point and : > 280 °C / 536 °F estimated value(s)

Boiling Range

Pour point : Typical -39 °C / -38 °F

Flash point : Typical 215 °C / 419 °F (PMCC / ASTM D93)

Upper / lower Flammability : Typical 1 - 10 %(V)

or Explosion limits

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

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

Specific gravity : Typical 0.850 at $15 \,^{\circ}\text{C}$ / $59 \,^{\circ}\text{F}$ Density : Typical $850 \, \text{kg/m3}$ at $15 \,^{\circ}\text{C}$ / $59 \,^{\circ}\text{F}$

Water solubility : Negligible.

Solubility in other solvents : Data not available

n-octanol/water partition : > 6 (based on information on similar products)

coefficient (log Pow)

Dynamic viscosity : Data not available

Kinematic viscosity : Typical 151 mm2/s at 40 °C / 104 °F

Vapour density (air=1) : > 1 (estimated value(s)) Evaporation rate (nBuAc=1) : Data not available

10. STABILITY AND REACTIVITY

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Stability : Stable.

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Conditions to Avoid : Extremes of temperature and direct sunlight.

Materials to Avoid Strong oxidising agents.

: Hazardous decomposition products are not expected to form Hazardous

Decomposition Products during normal storage.

11. TOXICOLOGICAL INFORMATION

: Information given is based on data on the components and the **Basis for Assessment**

toxicology of similar products.

Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat **Acute Oral Toxicity** Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit **Acute Dermal Toxicity Acute Inhalation Toxicity** Not considered to be an inhalation hazard under normal

conditions of use.

Skin Irritation : Expected to be slightly irritating. Prolonged or repeated skin

contact without proper cleaning can clog the pores of the skin

resulting in disorders such as oil acne/folliculitis.

Expected to be slightly irritating. **Eye Irritation**

Respiratory Irritation Inhalation of vapours or mists may cause irritation.

Not expected to be a skin sensitiser. Sensitisation

Repeated Dose Toxicity Not expected to be a hazard.

Mutagenicity Not considered a mutagenic hazard.

Carcinogenicity 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. Continuous contact with used engine oils has caused skin

cancer in animal tests.

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.

Poorly soluble mixture. May cause physical fouling of aquatic **Acute Toxicity**

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.

Data not available Microorganisms

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

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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

Land (as per ADR classification): Not regulated

This material is not classified as dangerous under ADR regulations.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. REGULATORY INFORMATION

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

EC Classification : Not classified as dangerous under EC criteria.

EC Symbols : No Hazard Symbol required

EC Risk Phrases : Not classified. EC Safety Phrases : Not classified.

Chemical Inventory Status

EINECS : All components

listed or polymer

exempt.

TSCA : All components

listed.

Other Information : The Manufacture, Storage and Import of Hazardous Chemicals

Rules 1989 (amended version issued 2000). The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through 1987. India Central motor Vehicles (Amendment)

Rules 1993.

16. OTHER INFORMATION

R-phrase(s)

Not classified.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R53 May cause long-term adverse effects in the aquatic environment.

MSDS Version Number : 1.0

MSDS Effective Date : 25.07.2012

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

MSDS Distribution : The information in this document should be made available to

all who may handle the product.

Disclaimer : This information is based on our current knowledge and is

intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property

of the product.