## **Material Safety Data Sheet**

According to the Controlled Product Regulations

### 1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : FormulaShell SAE 10W-30 Motor Oil

Uses: Engine oil.Product Code: 001D7227

Manufacturer/Supplier : Shell Canada Products

400 - 4th Avenue S.W Calgary AB T2P 0J4

Canada

**Telephone** : (+1) 8006611600 **Fax** : (+1) 4033848345

**Emergency Telephone Number** 

: CHEMTREC (24 hr): (+1) 800-424-9300 CANUTEC (24 hr): (+1) 613-996-6666

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture Description:** : Highly refined mineral oils and additives.

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

Refer to Chapter 8 for Occupational Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

WHMIS Class/Description : THIS PRODUCT IS NOT A WHMIS CONTROLLED

SUBSTANCE.

**Routes of Exposure** : Skin and eye contact are the primary routes of exposure

although exposure may occur following accidental ingestion.

**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

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

conditions.

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Inhalation No treatment necessary under normal conditions of use. If

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.

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

irritation occurs, obtain medical attention.

Ingestion In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

**Advice to Physician** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

: > 230 °C / 446 °F (COC) Flash point

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

Flammability or

**Explosion limits** 

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

**Hazardous Combustion Products and 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

**Unsuitable Extinguishing** 

Media

**Protective Equipment for** 

**Firefighters** 

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.

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

### 6. ACCIDENTAL RELEASE MEASURES

**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.

: Local authorities should be advised if significant spillages Additional Advice

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

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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.

PVC. **Unsuitable Materials** 

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	ACGIH	TWA(Inhala		5 mg/m3	
		ble fraction.)			

Consult local authorities for acceptable exposure limits within their jurisdiction.

**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 specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where

air-filtering respirators are suitable, select an appropriate

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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.
Odour threshold : Data not available
pH : Not applicable.

Initial Boiling Point and

Boiling Range

: > 280 °C / 536 °F estimated value(s)

Pour point : Typical -34 °C / -30 °F

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

Specific gravity : Typical 0.88 at 15 °C / 59 °F

Density : Typical 880 kg/m3 at 15 °C / 59 °F

Water solubility : Negligible.

n-octanol/water partition : > 6 (ba

coefficient (log Pow)

: > 6 (based on information on similar products)

Kinematic viscosity : > 50 mm2/s at 40 °C / 104 °F Vapour density (air=1) : > 1 (estimated value(s)) Evaporation rate (nBuAc=1) : Data not available

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### 10. STABILITY AND REACTIVITY

Stability : Stable.

**Conditions to Avoid** : Extremes of temperature and direct sunlight.

Materials to Avoid : Strong oxidising agents.

Hazardous : Hazardous decomposition products are not expected to form

**Decomposition Products** during normal storage.

Hazardous : N

Polymerisation

**Acute Oral Toxicity** 

**Sensitivity to Mechanical** 

**Impact** 

Sensitivity to Static

Discharge

: No

: No

### 11. TOXICOLOGICAL INFORMATION

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

toxicology of similar products.

**Routes of Exposure** : Skin and eye contact are the primary routes of exposure

although exposure may occur following accidental ingestion. Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat. Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit.

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabl 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.

**Eve Irritation** : Expected to be slightly irritating.

**Respiratory Irritation**: Inhalation of vapours or mists may cause 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

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.

Continuous contact with used engine oils has caused skin

cancer in animal tests.

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### 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.

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. 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

Bioaccumulation

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

### Canadian Road and Rail Shipping Classification

This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

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#### 15. REGULATORY INFORMATION

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Class/Description : THIS PRODUCT IS NOT A WHMIS CONTROLLED

SUBSTANCE.

**Inventory Status** 

**TSCA** 

EINECS : All components

listed or polymer

exempt.

: All components listed.

DSL : All components

listed.

16. OTHER INFORMATION

MSDS Version Number : 2.2

MSDS Effective Date : 2014-12-18

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

from the previous version.

MSDS Regulation : The content and format of this (M)SDS is in accordance with

the Controlled Product Regulations.

MSDS Prepared By : Shell Product Stewardship; 1-800-661-1600

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

all who may handle the product.

**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.