## **Material Safety Data Sheet**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

### 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name** : Shell Rotella T6 5W-40

Uses : Engine oil.

Manufacturer/Supplier : SOPUS Products

PO BOX 4427

Houston, TX 77210-4427

USA

**MSDS** Request : 877-276-7285

**Emergency Telephone Number** 

Spill Information : 877-242-7400 **Health Information** : 877-504-9351

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of polyolefins and additives.

Highly refined mineral oil.

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

## 3. HAZARDS IDENTIFICATION

**Emergency Overview** 

Appearance and Odour : Amber. Liquid at room temperature. Slight hydrocarbon.

Not classified as dangerous for supply or conveyance. **Health Hazards** 

Not classified as flammable but will burn. Safety Hazards

**Environmental Hazards** Not classified as dangerous for the environment.

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

conditions.

**Health Hazards** 

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

primary route of exposure.

**Skin Contact** : Prolonged or repeated skin contact without proper cleaning can

clog the pores of the skin resulting in disorders such as oil

acne/folliculitis.

**Eye Contact** : May cause slight irritation to eyes.

: Low toxicity if swallowed. Ingestion

Other Information : Used oil may contain harmful impurities.

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

of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

**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** : Not classified as dangerous for the environment.

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**Additional Information**: Under normal conditions of use or in a foreseeable emergency,

this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

### 4. FIRST AID MEASURES

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

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.

**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.

Flash point : > 230 °C / 446 °F (COC)
Upper / lower : Typical 1 - 10 %(V)

Flammability or Explosion limits

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

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 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

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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

cannot be contained.

### 7. HANDLING AND STORAGE

**Additional Advice** 

**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**

Contains no components with occupational exposure limit values.

**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

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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 -20 °C / -4 °F Flash point : > 230 °C / 446 °F (COC) 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 0.89
Density : Typical 0.895 kg/m3

Water solubility : Negligible.

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

Kinematic viscosity : > 40 cSt at 40 °C / 104 °F Vapour density (air=1) : > 1 (estimated value(s))

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Evaporation rate (nBuAc=1) : Data not available

#### 10. STABILITY AND REACTIVITY

Stability : Stable.

Conditions to Avoid : Extremes of temperature and direct sunlight.

Materials to Avoid : Strong oxidising agents.

Hazardous Decomposition : Hazardous decomposition products are not expected to form

**Products** 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

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

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.

**Eye 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** : 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

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.

**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).

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

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

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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.

Bioaccumulation
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**

EINECS All components listed or

polymer exempt.

TSCA All components listed.
DSL All components listed.

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### SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

### SARA Toxic Release Inventory (TRI) (313)

Zinc alkyl dithiophosphate (68649- 5.00% 42-3)

### **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**

Zinc alkyl dithiophosphate (68649-42-3) Listed.

## 16. OTHER INFORMATION

NFPA Rating (Health,

: 0, 1, 0

Fire, Reactivity)
MSDS Version Number

: 1.0

MSDS Effective Date

: 08/31/2009

**MSDS** Revisions

: A vertical bar (|) 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.

**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.

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