Pennzoil SAE 10W-40 Motor Oil

MSDS# 11495

Version 1.0

Effective Date 02/26/2010

According to OSHA Hazard Communication Standard, 29 CFR

1910.120

# **Material Safety Data Sheet**

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(140°EV)]

>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

occui.

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 : -34.45 °C / -30.01 °F
Flash point : > 280 °C / 536 °F (COC)

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

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 : 0.885

Density : Typical 0.885 g/cm3

Water solubility : Negligible.

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

Kinematic viscosity : Typical 30 - 40 mm2/s at 40 °C / 104 °F

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

> 1 (estimated value(s)) Data not available

#### 10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to Avoid Materials to Avoid

Extremes of temperature and direct sunlight.

**Hazardous Decomposition** 

Strong oxidising agents.

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 **Acute Dermal Toxicity Acute Inhalation Toxicity**  Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat 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 or repeated skin contact without proper cleaning can clog the pores of the skin

resulting in disorders such as oil acne/folliculitis.

Eye Irritation

Respiratory Irritation

Sensitisation

Repeated Dose Toxicity

Mutagenicity Carcinogenicity Expected to be slightly irritating.

Inhalation of vapours or mists may cause irritation.

Not expected to be a skin sensitiser.

Not expected to be a hazard.

Not considered a mutagenic hazard.

Product contains mineral oils of types shown to be noncarcinogenic 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. 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

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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.

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**

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**EINECS** 

TSCA DSL All components listed or

polymer exempt.
All components listed.
All components listed.

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

SARA Toxic Release Inventory (TRI) (313)

Zinc alkyl dithiophosphate (68649- 0.90% 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)

: 1.0

**MSDS Effective Date** 

**MSDS Version Number** 

: 02/26/2010

**MSDS** Revisions

Mana Kensions

: 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

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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.