Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name Product Code Uses	:	Pennzoil Motor Oil 5W-30 001D0543 Engine oil.
Manufacturer/Supplier	:	Shell Oil Products US P.O. Box 4427 Houston TX 77210-4427 USA
SDS Request	:	(+1) 877-276-7285
Emergency Telephone Nur		
Spill Information	-	877-242-7400
Health Information	:	877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oil, severely hydrotreated slack wax and additives. 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.
Health Hazards	: Not classified as dangerous for supply or conveyance.
Safety Hazards	: Not classified as flammable but will burn.
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	
Inhalation	: Under normal conditions of use, this is not expected to be a 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.
Ingestion	: Low toxicity if swallowed.
Other Information	: Used oil may contain harmful impurities.
Signs and Symptoms	 Oil acne/folliculitis signs and symptoms may include formatio of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Aggravated Medical Conditions	 Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.
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Pennzoil Motor Oil 5W-30 MSDS# 10555DA Version 1.5 Effective Date 02/05/2014 According to OSHA Hazard Communication Standard, 29 CFR Material Safety Data Sheet 1910.1200 **Environmental Hazards** : Not classified as dangerous for the environment. Under normal conditions of use or in a foreseeable emergency, Additional Information 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. No treatment necessary under normal conditions of use. If Inhalation 5 symptoms persist, obtain medical advice. **Skin Contact** : Remove contaminated clothing. Flush exposed area with water

Eye Contactand 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.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Advice to Physician

Clear fire area of all non-emergency personnel.

Flash point Upper / lower Flammability or Explosion limits		Typical 230 °C / 446 °F (COC) Typical 1 - 10 %(V)(based on mineral oil)
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 may be evolved if incomplete combustion occurs. 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	
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MSDS# 10555DA Version 1.5 Effective Date 02/05/2014 According to OSHA Hazard Communication Standard, 29 CFR Material Safety Data Sheet 1910.1200 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. 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Storage Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Store at ambient temperature. **Product Transfer** This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. **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
Oil mist, mineral	ACGIH	TWA(Inhalabl e fraction.)		5 mg/m3	
Oil mist, mineral	OSHA Z1	PEL(Mist.)		5 mg/m3	

Biological Exposure Index (BEI) No biological limit allocated.

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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. Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling and footwear that cannot be cleaned. Practice good housekeeping. 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 suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the specific conditions of use and meeting relevant legislation.
Hand Protection	 >65°C(149 °F)]. 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, 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. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference
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	for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.
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. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.
	National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/ Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/ Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/ Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany. http://www.dguv.de/inhalt/index.jsp L'Institut National de Recherche et de Securité, (INRS), France
Environmental Exposure Controls	 http://www.inrs.fr/accueil Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance Odour	: Amber. Liquid at room temperature.: Slight hydrocarbon.	
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 Not applicable. > 280 °C / 536 °F estimated value(s)
: Typical -39 °C / -38 °F
: Typical 230 °C / 446 °F (COC)
: Typical 1 - 10 %(V) (based on mineral oil)
: > 320 °C / 608 °F
: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
: Typical 0.88 - 0.89
: Typical 863 kg/m3 at 15 °C / 59 °F
: Negligible.
: > 6 (based on information on similar products)
: Typical 47.3 mm2/s at 40 °C / 104 °F
: > 1 (estimated value(s))
This material is not expected to be a static accumulator.Data not available

10. STABILITY AND REACTIVITY

Stability: Stable.Conditions to Avoid: Extremes of temperature andMaterials to Avoid: Strong oxidising agents.Hazardous Decomposition: Hazardous decomposition prProducts: during normal storage.	d direct sunlight. roducts are not expected to form
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11. TOXICOLOGICAL INFORMATION

Basis for Assessment	 Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
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	: Not expected to be carcinogenic. 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).

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Material	:	Carcinogenicity Classification
Highly refined mineral oil (IP346 <3%)	:	ACGIH Group A4: Not classifiable as a human carcinogen.
Highly refined mineral oil (IP346 <3%)	:	IARC 3: Not classifiable as to carcinogenicity to humans.
Highly refined mineral oil (IP346 <3%)	:	GHS / CLP: No carcinogenicity classification

Reproductive and Developmental Toxicity	:	Not expected to be a hazard.
Additional Information	:	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. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

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. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.
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 Other Adverse Effects	:	Contains components with the potential to bioaccumulate. 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	
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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 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.

Federal Regulatory Status

Notification Status

TSCA	All components listed.	
DSL	All components listed.	
EINECS	All components listed or	
	polymer exempt.	

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Pennzoil Motor Oil 5W-30 () Reportable quantity: 101 lbs

Zinc alkyl dithiophosphate (68649-42-3) Pennzoil Motor Oil 5W-30

Listed.

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

Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802. The components with RQs are given for information.

SARA Toxic Release Inventory (TRI) (313)

Zinc alkyl dithiophosphate	(68649-	0.99%
42-3)		
Diphenylamine (122-39-4)		0.10%

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) 0.99%	Listed.
Diphenylamine (122-39-4) 0.10%	
Distillates (petroleum), hydrotreated light naphthenic	Listed. Listed.
(64742-53-6) 0.10%	Listed.
Pennsylvania Right-To-Know Chemical List	
Diphenylamine (122-39-4) 0.10%	Environmental hazard. Listed.

Distillates (petroleum), hydrotreated light naphthenic Listed. (64742-53-6) 0.10% Listed.

16. OTHER INFORMATION

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SDS Effective Date	: 02/05/2014	
SDS Version Number	: 1.5	
NFPA Rating (Health, Fire, Reactivity)	: 0, 1, 0	

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SDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version. The content and format of this MSDS is in accordance with the **SDS** Regulation ÷ OSHA Hazard Communication Standard, 29 CFR 1910.1200. **SDS** 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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