Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name Product Code Uses	Quak 001D Engin	
Manufacturer/Supplier	P.O. I	Oil Products US Box 4427 on TX 77210-4427
SDS Request	: (+1) 8	77-276-7285
Emergency Telephone Nur Spill Information Health Information	ber : 877-2 : 877-5	

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

3. HAZARDS IDENTIFICATION

	Emergency Overview
Appearance and Odour	: Clear, bright liquid. 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 formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Aggravated Medical	: Pre-existing medical conditions of the following organ(s) or
Conditions	organ system(s) may be aggravated by exposure to this material: Skin.
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Quaker State Ultimate Durability European Engine 5W-30 MSDS# 11934DA Version 1.4 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 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. Flush eye with copious quantities of water. If persistent **Eye Contact** irritation occurs, obtain medical attention. Ingestion In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. Treat symptomatically. Advice to Physician

5. FIRE-FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point Upper / lower Flammability or Explosion limits		Typical 227 °C / 441 °F (PMCC / ASTM D93) Typical 1 - 10 %(V)
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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Clean Up Methods	other appropriate barriers. Slippery when spilt. Avoid accidents, clean up immediately. 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,
Additional Advice :	sand or other suitable material and dispose of properly. 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 : Additional Information :	PVC. 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	depending up based on a ris Appropriate m airborne conc mist formed, ti concentrations Define proced controls. Educ measures rele- broduct. Ensu maintenance down system Retain drain d subsequent re- measures, suc and before ea work clothing contaminants. cannot be clea Personal prote- recommended No respiratory conditions of up reactices, pre- material. If en- concentrations health, select specific condit Check with re- air-filtering res- combination of	rotection and types of controls necessary will vary on potential exposure conditions. Select controls is assessment of local circumstances. leasures include: Adequate ventilation to control entrations. Where material is heated, sprayed or here is greater potential for airborne is to be generated. ures for safe handling and maintenance of eate and train workers in the hazards and control evant to normal activities associated with this re appropriate selection, testing and of equipment used to control exposure, e.g. ective equipment, local exhaust ventilation. Drain prior to equipment break-in or maintenance. owns in sealed storage pending disposal or for ecycle. Always observe good personal hygiene ch as washing hands after handling the material ting, drinking, and/or smoking. Routinely wash and protective equipment to remove Discard contaminated clothing and footwear that aned. Practice good housekeeping. ective equipment (PPE) should meet d national standards. Check with PPE suppliers. protection is ordinarily required under normal use. In accordance with good industrial hygiene cautions should be taken to avoid breathing of gineering controls do not maintain airborne is to a level which is adequate to protect worker respiratory protection equipment suitable for the ions of use and meeting relevant legislation. spiratory protective equipment suppliers. Where spirators are suitable, select an appropriate f mask and filter. Select a filter suitable for ticulate/organic gases and vapours [boiling point not protection as contain gases and vapours [boiling point not protection is contain a suborne is point on the suppliers. Where protection is gases and vapours [boiling point not protection is protective equipment suppliers. Where
Hand Protection	Where hand c gloves approv JS: F739) ma suitable chem gloves. Suitab usage, e.g. fre resistance of g rom glove sup Personal hygi Gloves must c hands should hon-perfumed For continuou preakthrough	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide ical protection: PVC, neoprene or nitrile rubber ility and durability of a glove is dependent on equency and duration of contact, chemical glove material, dexterity. Always seek advice opliers. Contaminated gloves should be replaced. ene is a key element of effective hand care. only be worn on clean hands. After using gloves, be washed and dried thoroughly. Application of a moisturizer is recommended. s contact we recommend gloves with time of more than 240 minutes with preference utes where suitable gloves can be identified. For

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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 http://www.inrs.fr/accueil **Environmental Exposure** Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid Controls 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

Appearance	: Clear, bright liquid.
Odour	: Slight hydrocarbon.
рН	: Not applicable.

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: > 280 °C / 536 °F estimated value(s)
: Typical -39 °C / -38 °F
: Typical 227 °C / 441 °F (PMCC / ASTM D93) : Typical 1 - 10 %(V)
: > 320 °C / 608 °F
: < 0.10 hPa
: Typical 0.851 at 15 °C / 59 °F
: Typical 851 kg/m3 at 15 °C / 59 °F
: Negligible.
: > 6 (based on information on similar products)
: Typical 74.4 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

Materials to Avoid: Extremes of temperature and direct sumight.Materials to Avoid: Strong oxidising agents.Hazardous Decomposition: Hazardous decomposition products are not expected to form during normal storage.	Hazardous Decomposition	: Hazardous decomposition products 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.

Material	:	Carcinogenicity Classification
Highly refined mineral oil (IP346 <3%)	:	ACGIH Group A4: Not classifiable as a human carcinogen.

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Highly refined mineral oil (IP346 <3%)	:	IARC 3: Not classifiable as to carcinogenicity to humans.
Highly refined mineral oil	:	GHS / CLP: No carcinogenicity classification
(IP346 <3%)		

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.
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 CONSIDERATION	S
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
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Local Legislation	to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. 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 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

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

State Regulatory Status

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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.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) SDS Version Number SDS Effective Date		0, 1, 0 1.4 02/05/2014
SDS Revisions	:	A vertical bar () in the left margin indicates an amendment
SDS Regulation	:	from the previous version. The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard 20 CEP 1010 1200
SDS Distribution	:	OSHA Hazard Communication Standard, 29 CFR 1910.1200. 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.