



Material Safety Data Sheet

Material Name: Quaker State HD 2-Cycle Motor Oil

ID: QS-052

*** Section 1 - Chemical Product and Company Identification ***

Product Numbers: 12438 (case/12x1 qt); 12410 (55 gallon)

Chemical Name: Motor Oil

Manufacturer Information

Quaker State Corporation
225 E. John Carpenter Freeway
Irving, Texas 75062

Phone: (800)562-5928

Emergency # (800)424-9300 CHEMTREC

General Comments

CHEMTREC Emergency telephone number is to be used in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
64742-62-7	Residual Oils (petroleum), Solvent Dewaxed	15-20
64742-47-8	Petroleum Distillates, Hydrotreated Light	15-20
64742-65-0	Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	Blend
64742-54-7	Petroleum Distillates, Hydrotreated Heavy Paraffinic	Blend

Component Information/Information on Non-Hazardous Components

The maximum percentage of the petroleum distillate and/or residual oil blend contained in this product is: 70%

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). All mineral oils used in this product have been severely hydrotreated and/or solvent refined.

*** Section 3 - Hazards Identification ***

Emergency Overview

This product is a green liquid. It will burn at elevated temperatures (above 205 degrees F). Addition of water or foam to the fire may cause frothing. Use dry chemical or carbon dioxide for small fires, water spray or foam for large fires.

Hazard Statements

WARNING: Continuous contact with used motor oil has caused cancer in animal tests. Avoid prolonged contact. Wash skin with soap and water. Launder or discard soiled clothes.

Potential Health Effects: Eyes

Liquid is mildly irritating to the eyes. High vapor/aerosol concentrations may be irritating.

Potential Health Effects: Skin

Prolonged or repeated contact with skin may cause mild irritation and possibly dermatitis.

Potential Health Effects: Ingestion

Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

Potential Health Effects: Inhalation

High vapor/aerosol concentrations may be irritating to the respiratory tract. Vapors may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.

HMIS Ratings: Health: 2 Fire: 1 Reactivity: 0 Pers. Prot.:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Flush eyes with large amounts of water for 15 minutes. If eyes become inflamed, seek medical advice.

First Aid: Skin

Remove contaminated clothing. Wash affected area with mild soap and water. Launder contaminated clothing before reuse. If leather articles become saturated they should be discarded.

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First Aid: Ingestion

Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person.

First Aid: Inhalation

Remove to fresh air. If not breathing, give mouth to mouth resuscitation. If inhaled, immediately remove the affected person to fresh air. Call a physician.

First Aid: Notes to Physician

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

*** Section 5 - Fire Fighting Measures ***

Flash Point: 205 deg F (96 deg C)

Method Used: Pensky-Martens

Upper Flammable Limit (UFL): ND

Lower Flammable Limit (LFL): ND

Auto Ignition: ND

Flammability Classification: IIIB

Rate of Burning: ND

General Fire Hazards

This product is combustible at temperatures above 205 degrees F. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, and oxides of calcium.

Extinguishing Media

Dry chemical or carbon dioxide for small fires. Water spray or foam for large fires.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products. Do not point solid water stream directly into burning oil to avoid spreading.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

Clean-Up Procedures

Do not allow the spilled product to enter public drainage systems or open water courses. Surfaces may become slippery after spillage.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Wear appropriate protective equipment and clothing during clean-up.

*** Section 7 - Handling and Storage ***

Handling Procedures

Wash hands after handling and before eating. Launder work clothes frequently. Avoid inhalation and skin contact, especially when handling used oil. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

Storage Procedures

Store away from strong oxidizers.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

If oil mists are generated, observe the OSHA exposure limit of 5 mg/m3.

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B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

None normally required; chemical goggles if splashing or high-pressure system is used.

Personal Protective Equipment: Skin

For prolonged contact (2 hours) with product as sold, or for any contact with used oil, nitrile or viton gloves are recommended.

Personal Protective Equipment: Respiratory

If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

Personal Protective Equipment: General

Use good hygiene when handling petroleum product.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Green	Odor:	NA
Physical State:	Liquid	pH:	NA
Vapor Pressure:	NA	Vapor Density:	NA
Boiling Point:	NA	Melting Point:	NA
Solubility (H2O):	NA	Specific Gravity:	0.86-0.87
Viscosity:	Approximately 200 SUS @ 100 F	Percent Volatile:	Approximately 10%

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable

Chemical Stability: Conditions to Avoid

Avoid excessive heat, formation of mists.

Incompatibility

Strong oxidizing agents (peroxides, chlorine, strong acids).

Hazardous Decomposition

None under normal conditions. At thermal decomposition temperatures carbon monoxide, carbon dioxide, and oxides of calcium.

Hazardous Polymerization

10-POL-09 DCM-08

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

One component (64742-47-8) has shown reversible damage to the liver and kidneys of male rats at high oral doses.

B: Component Analysis - LD50/LC50

Petroleum Distillates, Hydrotreated Heavy Paraffinic (64742-54-7)

RTECS: PY8035500

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

RTECS: PY8035501

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

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Carcinogenicity

A: General Product Information

No data available on the product as a whole.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No data available for product.

Neurotoxicity

No data available on this product as a whole. High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.

Mutagenicity

No data available on this product as a whole. Review of information on components indicates no components at greater than 1.0% have mutagenic effects.

Teratogenicity

Ethyl benzene has caused birth defects, affected fertility and been fetotoxic below the TLV in animals. Review of information on components indicates no components at greater than 1.0% have teratogenic effects.

Other Toxicological Information

This product contains a blend of petroleum distillates and residual oils, all of which have been solvent refined or severely hydrotreated. The petroleum distillate and residual oil blend consists of one or more of the components identified by CAS Number in Section 2. Since these components vary with the availability of materials their presence is noted as "blend".

*** Section 12 - Ecological Information ***

Ecotoxicity

No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.

Environmental Fate

No information is available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. No components are identified as hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Used oil can be returned to a collection center or provided to a licensed recycler. All wastes must be handled in accordance with local, state and federal regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not regulated as a hazardous material.

Hazard Class: None

UN/NA #: None

Packing Group: None

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information.

B: Component Analysis

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None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Other Regulations

A: General Product Information

All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Petroleum Distillates, Hydrotreated Light	64742-47-8	Yes	Yes	Yes
Residual Oils (petroleum), Solvent Dewaxed	64742-62-7	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	Yes	Yes	Yes
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

*** Section 16 - Other Information ***

Other Information

This information is, to the best of Quaker State Corporation's knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Key/Legend

NA = Not Applicable; ND = Not Determined; Y = Yes; N = No EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration

MSDS History

Revision 2.0000: 11/19/1997.

Revision 2.0000: Section 2 was revised to indicate that the product contains a "blend" of petroleum distillates and/or residual oils. Section 11 revised to the nature of the product blend.

Revision (06/05/98): Text correction.

Contact: Vince Bernard, Corporate Safety Director

Contact Phone: (800) 562-5928

This is the end of MSDS # QS-052