



Material Safety Data Sheet

Material Name: Quaker State Dexron(R) III/Mercon(R) Automatic Transmission Fluid

ID: QS-040

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

Product Numbers: 406348 (12x1 qt); 06308 (5 gallon); 06309 (16 gallon); 06310 (55 gallon); 06319 (bulk)

Chemical Name: NA

Product Use: Automatic Transmission Fluid

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
Not Available	Lube Oil Additive with Borated Polybutenyl Succinic Anhydride Nitrogen Functionalized Dispersant, Substituted Alkyl Phosphite, Methacrylate Copolymer and Solvent Extracted Mineral Oil	< 12
Not Available	Methacrylate Polymer	< 4
84605-20-9	Amines, Polyethylenepoly-, Reaction Products With Succinic Anhydride Polyisobutenyl Derivitives	< 4
64742-88-7	Solvent Naphtha (petroleum), Medium Aliphatic	< 4
64742-65-0	Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	Blend
64742-56-9	Petroleum Distillates, Solvent Dewaxed Light Paraffinic	Blend
64742-55-8	Petroleum Distillates, Hydrotreated Light Paraffinic	Blend
64742-54-7	Petroleum Distillates, Hydrotreated Heavy Paraffinic	Blend
64741-97-5	Distillates (petroleum), Solvent Refined Light Naphthenic	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: 88%

This product has been reviewed using the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard). All mineral oils used in this product have been severely hydrotreated and/or solvent refined.

*** Section 3 - Hazards Identification ***

Emergency Overview

Product is a non-flammable red petroleum distillate mixture. Hazardous combustion products may include carbon monoxide, carbon dioxide, and oxides of boron and phosphorus. Containers of this material may be hazardous when emptied due to remaining residues. Observe all hazard precautions.

Hazard Statements

No information is available.

Potential Health Effects: Eyes

This product may cause irritation to the eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged and/or repeated skin contact with this product may cause irritation / dermatitis. Prolonged or repeated contact may result in allergic skin sensitization reactions.

Potential Health Effects: Ingestion

No significant adverse effects are expected upon ingestion of the product. Product can cause irritation, vomiting, diarrhea, blindness and death if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

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Potential Health Effects: Inhalation

Low vapor pressure makes inhalation unlikely at standard temperatures and pressures. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: goggles and gloves

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. Seek medical attention if eye irritation develops or persists.

First Aid: Skin

Wash affected area with mild soap and water. Immediately take off all contaminated clothing. Get medical attention if skin disorder develops.

First Aid: Ingestion

If the material is swallowed, seek immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If affected, remove individual to fresh air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

First Aid: Notes to Physician

Pulmonary aspiration hazard if swallowed; treat symptomatically.

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

Flash Point: 350 F (177 deg C)

Upper Flammable Limit (UFL): Not available

Auto Ignition: Not available

Rate of Burning: Not available

General Fire Hazards

KEEP AWAY FROM ALL SOURCES OF IGNITION. Product or residue can ignite explosively with sufficient ignition source. Toxic fumes, gases or vapors may evolve on burning. The liquid is volatile and gives off invisible vapors. Either the liquid or vapor may be heavier than air and settle in low areas or travel along the ground to an ignition source where they may ignite or explode. Container may rupture on heating.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide, and oxides of boron and phosphorus.

Extinguishing Media

Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity. Regular foam, carbon dioxide, or dry chemical are preferred.

Fire Fighting Equipment/Instructions

Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires. Water or foam may cause frothing, which can be violent.

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

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

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

Containment Procedures

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Clean-Up Procedures

For small spills, absorb liquid on vermiculite or other absorbent. For large spills stop spill at the source. Pump or vacuum transfer spilled product to clean containers for recovery, recycle and/or reuse. Use personal protective equipment. Sweep up or gather material and place in appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

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Special Procedures

Eliminate all ignition sources including flares, flames and electrical sparks.

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

Handling Procedures

Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Use a NIOSH-approved respirator if exposed to oil mist, and adequate ventilation is not available. Wash thoroughly after handling.

Storage Procedures

Eliminate all sources of ignition. Keep this material in a cool, well-ventilated place.

*** 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. Protect from skin and eye contact.

B: Component Exposure Limits

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

Engineering Controls

Use in a well-ventilated area. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles or faceshield if splash or mist occurs.

Personal Protective Equipment: Skin

Wear resistant gloves such as neoprene or nitrile.

Personal Protective Equipment: Respiratory

Under normal conditions, respirator is not normally required. If workplace exposure limit is exceeded use NIOSH-approved disposable dust/mist mask breathing apparatus for entry into confined space in the absence of proper environmental control.

Personal Protective Equipment: General

To prevent repeated or prolonged skin contact wear impervious clothing and boots. Launder contaminated clothing before reuse.

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

Appearance: Red	Odor: Not available
Physical State: Liquid	pH: Not available
Vapor Pressure: Not available	Vapor Density: Not available
Boiling Point: Not available	Melting Point: Not available
Solubility (H₂O): Not determined	Specific Gravity: 0.86-0.88
Freezing Point: Not available	Viscosity: 37.6 cSt @ 40 C; 6.80 cSt @ 100 C

Physical Properties: Additional Information

Pour Point: -45 F; -43 C

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

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Avoid excessive heat and all sources of ignition.

Incompatibility

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

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Hazardous Decomposition

Carbon dioxide, carbon monoxide, smoke, aldehydes, various oxides including boron and phosphorus, and other hydrocarbons.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

No data available for product as a whole.

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

Carcinogenicity

A: General Product Information

No data available for 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 as a whole.

Neurotoxicity

No data available for product as a whole.

Mutagenicity

No data available for product as a whole.

Teratogenicity

No data available for product as a whole.

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

As shipped, not regulated as a hazardous waste.

B: Component Waste Numbers

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

Disposal Instructions

Dispose of in accordance with all applicable Federal, State or provincial, and local regulations.

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* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Not classified as hazardous

Hazard Class: Not classified

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UN/NA #: Not classified

Packing Group: Not classified

International Transportation Regulations

Not regulated as a dangerous good.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components of this product are listed on the U.S. EPA TSCA Inventory.

B: Component Analysis

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

This product contains the following chemicals known to the state of California to cause cancer and/or birth defects: <1 ppm cadmium (7440-43-9), <1 ppm lead (7439-92-1), <1 ppm arsenic (7440-38-2), <1 ppm benzene (71-43-2)

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Distillates (petroleum), Solvent Refined Light Naphthenic	64741-97-5	No	No	Yes	No	No	No
Petroleum Distillates, Hydrotreated Light Paraffinic	64742-55-8	No	No	Yes	No	No	No
Petroleum Distillates, Solvent Dewaxed Light Paraffinic	64742-56-9	No	No	Yes	No	No	No

Other Regulations

A: General Product Information

This product is not considered a controlled product under the Canadian Controlled Product Ingredient Disclosure List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Amines, Polyethylenepoly-, Reaction Products With Succinic Anhydride Polyisobutenyl Derivatives	84605-20-9	Yes	Yes	No
Solvent Naphtha (petroleum), Medium Aliphatic	64742-88-7	Yes	Yes	Yes
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	Yes	Yes	Yes
Distillates (petroleum), Solvent Refined Light Naphthenic	64741-97-5	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Light Paraffinic	64742-55-8	Yes	Yes	Yes
Petroleum Distillates, Solvent Dewaxed Light Paraffinic	64742-56-9	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.

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Key/Legend

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

Preparation Information: last revision 03/14/1997. 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-040