



MAR 18 1986

Gen. Serv.

Date: 05/28/86

CITGO PETROLEUM CORPORATION
P. O. Box 3758
Tulsa, Oklahoma 74102

MATERIAL SAFETY DATA SHEET

Trade Name: **CITGO All Season Motor Oil, SAE 10W-30**

Commodity Code: 20-003

Synonyms: Lubricating Oil

CAS Reg. No.: Mixture
(Refer to Section I)

Citgo Index No. (CIN): 0002

Technical Contact: (918) 561-5165
Medical Emergency: (318) 491-6215

MATERIAL HAZARD EVALUATION
(Per OSHA's Hazard Communication
Standard [29 CFR Part 1910.1200])

Health: Non-Hazardous.

Precautionary Statement: Avoid prolonged skin contact with used motor oils.

I. GENERIC COMPOSITION/COMPONENTS

Components	CAS #	%	Hazard Data
Refined Petroleum Oil(s)	64742-56-9	80-90	Oral: LD50(rat): >15g/kg
	64742-65-0		Eye: Practically Non-Irritating (0.7-1.7/110, Draize)
			Skin: Non-Irritating or Practically Non-Irritating (0-0.6/8, Draize)
			Inh: LC50/4H(rat): >5,000mg/m ³
		-or-	
Other Refined Petroleum Oil(s)		80-90	Oral: LD50(rat): >5g/kg
Detergent, oxidation, inhibitor (contains zinc dialkyldithiophosphate)	Mixture	<10	Eye irritant, potential skin irritant
VI Improver	Mixture	<10	Eye irritant
Pour Point Depressant	Mixture	<0.5	Oral: LD50(rat): 60.3g/kg Eye: Slight irritant Skin: LD min(rabbit) 7.94g/kg

ND = No Data
NA = Not Applicable

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II. PHYSICAL DATA

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

No Combustible
No Compressed Gas
No Explosive
No Flammable
No Organic Peroxide

No Oxidizer
No Pyrophoric
No Reactivity
Yes Stable
No Unstable

Boiling Point, 760 mmHg,
°C(°F): -340(-650)

Melting Point, °C(°F): NA

Vapor Pressure, mmHg (25°C): -2.75×10^{-4}

Specific Gravity
(H₂O=1): 0.88

Solubility in H₂O, % By Wt.: Negligible

Vapor Density (Air=1): >1

Evaporation Rate
(Butyl Acetate=1): <1

% Volatiles By Vol.: Negligible

pH of Undiluted Product: ND

Appearance and Odor: Amber liquid - mild odor.

III. FIRE AND EXPLOSION DATA

Flash Point, COC, °C(°F): 220(428)

NFPA*

Flash Point, PM, °C(°F): 201(393)

Health: 1

Fire Point, COC, °C(°F): 230(446)

Flammability: 1

Reactivity: 0

Flammable Limits in Air, % Vol.:

Lower: NA Upper: NA

Extinguishing Media: CO₂, dry chemical, foam or water fog.

Special Fire Fighting Procedure: None.

Unusual Fire or Explosion Hazard: Water may cause frothing.

*Citgo assignment based on our evaluation per NFPA guidelines.
Hazard Rating least-0; slight-1; moderate-2; high-3; extreme-4.

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IV. REACTIVITY DATA

Stability: X Stable ___ Unstable

Conditions Contributing to Instability: None.

Incompatibility: Strong oxidants.

Hazardous Decomposition Products (thermal, unless otherwise specified):
CO, CO₂, trace oxides of S, P, Zn, Ca, Mg and Na.

Conditions Contributing to Hazardous Polymerization: None.

V. SPILL OR LEAK PROCEDURES

Procedures if Material is spilled:

Remove sources of heat or ignition, provide adequate ventilation, contain leak. Absorb small spills with suitable material such as rags, straw or sand. Report spills as required to appropriate authorities.

Chemtrec Emergency Number: 800-424-9300.

Waste Disposal:

It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
Check before disposing to be sure you are in compliance with all applicable laws and regulations.

Chemtrec/RCRA Emergency Number: 800-424-9346.

Protective measures during repair and maintenance of contaminated equipment:

Refer to Section VII - Special Protection Information.

Avoid prolonged contact with used oil, wash skin thoroughly with soap and water.

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VI. HEALTH HAZARD DATA

Health Hazard Classification (Per 29 CFR Part 1910.1200)

<u>No</u> Carcinogen	<u>No</u> Corrosive
<u>No</u> Animal Carcinogen	<u>No</u> Irritant
<u>No</u> Suspect Carcinogen	<u>No</u> Sensitizer
<u>No</u> Mutagen	<u>No</u> Teratogen
<u>No</u> Highly Toxic	<u>No</u> Target Organ
<u>No</u> Toxic	

Product listed as carcinogen or potential carcinogen by:

NTP No, IARC No, OSHA No, Other No

Toxicity Summary: Slightly toxic, 1 pt. to 1 qt. is approximate lethal oral dose for 150 lb. human adult.

Acute Exposure Symptoms:

Inhalation: Low risk of inhalation. In enclosed spaces or when hot, vapors may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Mists above TLV may cause chemical pneumonitis.

Dermal Contact: Low irritant.

Absorption: No probable acute hazard.

Eye Contact: May be mildly irritating.

Ingestion: Generally low toxicity. Very large amounts may cause generalized depression, headache, drowsiness, nausea, vomiting or diarrhea. Small doses may produce irritation and diarrhea.

Chronic Exposure: Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

Other Special

Effects: None expected.

First Aid and Emergency Procedures for Acute Effect

Inhalation: Remove to fresh air. Respiratory support if necessary. Seek medical aid.

Dermal: Wash with soap and water. Do not wear heavily contaminated clothing before laundering.

Eyes: Flush with large volumes of water. See physician if any complications arise.

Ingestion: Do not induce vomiting. Seek medical aid.

Injection: Subcutaneous injection is a medical emergency . . seek medical aid immediately.

Notes to Physician: If viscosity is less than 100 SUS at 100°F careful gastric lavage with tight fitting or cuffed tube is to be preferred over emesis. If viscosity is greater than 100 SUS at 100°F, emesis may be induced for large quantities.

Aspiration may cause chemical pneumonitis or lipid pneumonia. Subcutaneous injection requires prompt surgical debridement. If not familiar with technique, seek skilled advice.
SUS viscosity at 100°F = 372.

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VII. SPECIAL PROTECTION INFORMATION

Ventilation Requirements: Ventilation is required when work place exposures exceed TLV. Very high mist concentrations can result in a fire and explosion hazard.

TLV: 5 mg/cu m as oil mist. (ACGIH 1985-86; OSHA 1972)

Specific Personal Protective Equipment:

Respiratory: Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.

Eyes: Safety goggles, or chemical splash goggles if splashing is anticipated.

Dermal: Oil impervious gloves if frequent or prolonged contact is expected.

Other Clothing or Equipment: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse.

VIII. TRANSPORTATION AND SPECIAL PRECAUTIONS

Hazardous Material Placard/Label:

Caution: Avoid prolonged skin contact with used motor oils. Continuous contact with used oil has caused skin cancer in laboratory animals. After draining oil, wash skin thoroughly with soap and water.

Storage: Store below 120°F. DOT Hazard label not required. Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

DOT Information:

DOT/UN Shipping Name:	Petroleum Lubricating Oil.
DOT Hazard Class:	Non-Hazardous.
DOT/UN Hazard Identification Number:	None assigned.
DOT Shipping Container Restrictions:	None.
DOT Placard:	None.

Caution: Empty containers may contain product residue which could include flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

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