



CITGO Petroleum Corporation  
P. O. Box 3758  
Tulsa, Oklahoma 74102

**Material Safety Data Sheet**

Generic Name: CITGO Motor Oils, SUS 200 - 400 Date: September 24, 1997  
Generic Code: MO-S2b

**THIS GENERIC MSDS REPRESENTS THE FOLLOWING CITGO PRODUCTS:**

<u>Trade Name:</u>	<u>Commodity Code No.:</u>
CITGO SUPERGARD SAE 5W-30	20-805
CITGO SUPERGARD SAE 10W-30	20-813
CITGO SUPERGARD SAE 20W-20	20-902
CITGARD 500 Motor Oil, SAE 10W30	22-310
CITGARD 500 Motor Oil, SAE 20W-20	22-402
CITGARD 600 Motor Oil, SAE 10W	22-610

  

Synonyms: Motor Oil	Technical Contact: (918) 495-5933
CAS No.: Mixture (Refer to Section 1)	Medical Emergency: (918) 495-4700
CITGO Index No.: 1767	CHEMTREC Emergency: (800) 424-9300

**MATERIAL HAZARD EVALUATION**

(Per OSHA Hazard Communication Standard [29 CFR 1910.1200])

**Health Precautions:** Avoid prolonged skin contact with used motor oils.  
**Safety Precautions:** This material will burn. Do not store product in open or unlabeled containers.  
HMIS Rating<sup>1</sup>: Health: 0 Flammability: 1 Reactivity: 0

**1.0 GENERIC COMPOSITION / COMPONENTS**

Components	CAS No.	%	Hazard Data
Refined Petroleum Oil(s)	Refer to Section 11.0	> 75	Oral I.D. <sub>50</sub> (rat): > 5g/kg Hazard data are based upon similar components.
Detergent Inhibitor and Anti-oxidant (contains zinc alkyldithiophosphate)	Mixture	0 - 20	Eye: Irritant Dermal: Mild irritant
VI Improver	Mixture	0 - 15	Eye: Mild irritant. Dermal (chronic): Irritant
Pour Point Depressant	Mixture	0 - 1	Dermal and Eye: Mild irritant.

<sup>1</sup>Hazard Rating: least-0; slight-1; moderate-2; high-3; extreme-4.  
CITGO assigned these values based upon an evaluation conducted pursuant to NPCA guidelines. Use of an asterisk (\*) indicates that the material may present chronic health effects.

## 2.0 PHYSICAL DATA

### PHYSICAL HAZARD CLASSIFICATION (Per 29 CFR 1910.1200)

Combustible	No	Flammable	No	Pyrophoric	No
Compressed Gas	No	Organic Peroxide	No	Reactivity	No
Explosive	No	Oxidizer	No	Stable	Yes

Boiling Point, 760 mm Hg, °C (°F):	~ 343 - 393 (~ 650 - 740)
Specific Gravity (60/60 °F) (H <sub>2</sub> O = 1):	0.87 - 0.90
Vapor Density (Air = 1):	> 1
% Volatiles by Volume:	Negligible
Melting Point, °C (°F):	NA
Vapor Pressure, mm Hg (25° C):	< 1 x 10 <sup>-5</sup> - ~3 x 10 <sup>-4</sup>
Solubility in Water:	Negligible
Evaporation Rate (n-butyl acetate = 1):	< 1
pH of Undiluted Product:	NA
Appearance and Odor:	Amber to dark amber liquid, slight petroleum odor.

## 3.0 FIRE AND EXPLOSION DATA

Flash Point, OC, °C (°F):	~200 - 247 (~ 393 - 477)
Flash Point, CC, °C (°F):	~185 - 205 (~ 365 - 401)
Autoignition Temperature, OC, °C (°F):	ND
NFPA Rating <sup>2</sup> :	Health: <u>0</u> Flammability: <u>1</u> Reactivity: <u>0</u>
Flammable Limits (% by volume in air):	Lower: <u>ND</u> Upper: <u>ND</u>
Extinguishing Media:	CO <sub>2</sub> , dry chemical, foam, water fog
Special Fire Fighting Procedure:	None.
Unusual Fire or Explosion Hazard:	Water may cause frothing

## 4.0 REACTIVITY DATA

Stability:	Stable.
Conditions Contributing to Instability:	None.
Incompatibility:	Strong oxidants.
Hazardous Decomposition Products: (thermal, unless otherwise specified)	CO <sub>2</sub> (CO under incomplete combustion). Traces of sulfur, zinc and phosphorus oxides.
Hazardous Polymerization:	Hazardous polymerization is not expected to occur.

## 5.0 SPILL, LEAK AND DISPOSAL PROCEDURES

### Procedure if Material is Spilled:

- Remove sources of heat or ignition.
- Provide adequate ventilation.
- **Small Spills:** Take up with noncombustible absorbent such as fullers earth or sand. Place into containers for later disposal.

<sup>2</sup>Hazard Rating: least-0; slight-1; moderate-2; high-3; extreme-4.

CITGO assignment these values based upon an evaluation conducted pursuant to NFPA guidelines.

## 5.0 SPILL, LEAK AND DISPOSAL PROCEDURES (continued)

- **Large Spills:** Evacuate area in the event of significant spills. Adequately ventilate area and determine potential exposure conditions. Exposure potential may require the use of respiratory protection and protective clothing. Contain spill in temporary dikes to avoid product migration and to assist in recovery. Do not allow material to escape into sewers, ground water, drainage ditches or surface waters.
- Administer first aid, as appropriate.
- Report releases as required to the appropriate federal, state and local authorities.

### Waste Disposal:

- It is the user's responsibility to determine the regulatory status of waste material at the time of disposal.
- Determine compliance status with all applicable laws and regulations prior to disposal of waste oils.
- Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

### Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section 7.0 - Special Protection Information.
- Use gloves constructed of impervious materials such as heavy nitrile rubber or neoprene if extended, direct contact is expected.
- Avoid prolonged contact with used oil.
- Remove contaminated clothing and launder before reuse.
- Wash exposed skin thoroughly with soap and water.

## 6.0 HEALTH HAZARD DATA

### Health Hazard Classification (Per 29 CFR 1910.1200):

Highly Toxic	No	Sensitizer	No
Toxic	No	Reproductive Effects	No
Corrosive	No	Mutagen	No
Irritant	No	Target Organ	No

### Carcinogen:

Product/Component	CAS No.	Conc. (%)	NTP	IARC	OSHA	Other
CITGO Motor Oils SUS 200 - 400	Mixture	100	No	No	No	No

**Toxicity Summary:** Generally of a low order of toxicity.

**Major Route of Entry:** Inhalation of incidental mists or vapors and dermal contact.

### Acute Exposure Symptoms:

**Inhalation:** Low risk of inhalation at ambient temperatures. Mists or vapors at concentrations above applicable workplace exposure levels may cause drowsiness, dizziness, headache, nausea or respiratory irritation. Elevated mists concentrations above applicable workplace exposure levels may cause lung damage.

## 6.0 HEALTH HAZARD DATA (continued)

- Dermal:** The products represented by this MSDS can cause mild transient skin irritation in some individuals.
- Eye:** The products represented by this MSDS can cause mild transient eye irritation in some individuals.
- Ingestion:** Generally of a low order of toxicity. Upon ingestion slight gastrointestinal discomfort, diarrhea and headache can occur.
- Injection:** Injection under the skin in muscle or into the blood stream may cause irritation, inflammation, swelling or severe permanent tissue damage.

### Chronic Exposure Symptoms:

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

### Other Special Effects:

None expected.

### Medical Conditions Aggravated by Exposure:

None.

### First Aid and Emergency Procedures for Acute Effects:

- Inhalation:** Move victim to fresh air. If victim is not breathing, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.
- Dermal:** Remove contaminated clothing. Wash exposed skin with soap and water. Launder clothing before use. Seek medical attention if tissue appears damaged or if irritation persists.
- Eyes:** Flush eyes with cool water while occasionally lifting and lowering eyelids. Remove contact lenses if worn. Seek medical attention if excessive tearing, irritation, or pain persists.
- Ingestion:** Induce vomiting only upon the advice of a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.
- Injection:** Injection under the skin, in muscle or into the blood stream is a medical emergency. Seek medical attention immediately.

### Notes to Physician:

The viscosity range of the products represented by this MSDS is 200 - 400 SUS at 100° F. Accordingly, upon ingestion there is risk of aspiration into the lungs. If large quantities of product are swallowed, careful gastric lavage should be considered.

Subcutaneous injection requires prompt surgical debridement.

## 7.0 SPECIAL PROTECTION INFORMATION

### Ventilation Requirements:

Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below applicable workplace exposure levels as evaluated by designated and properly trained personnel.

## 7.0 SPECIAL PROTECTION INFORMATION (continued)

### Applicable Workplace Exposure Levels:

Chemical Component	ACGIH TLV TWA ppm (mg/M <sup>3</sup> )	ACGIH TLV STEL/ Ceiling (C) ppm (mg/M <sup>3</sup> )	ACGIH TLV Skin notation?	OSHA PEL TWA ppm (mg/ M <sup>3</sup> )	OSHA PEL STEL/ Ceiling (C) ppm (mg/M <sup>3</sup> )	OSHA PEL Skin notation?
Oil Mist, Mineral	(5)	(10)	No	(5)	NE	No

### Specific Personal Protective Equipment:

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations.

- Respirator:** Use a NIOSH/MSHA approved organic vapor/mist respirator if elevated concentrations above applicable workplace exposure levels are anticipated.
- Eyes:** Safety glasses, or chemical splash goggles if splashing is anticipated.
- Dermal:** Use oil gloves constructed of impervious materials if frequent or prolonged contact is expected.
- Clothing or Equipment:** Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder contaminated work clothes before reuse.

## 8.0 TRANSPORTATION AND SPECIAL PRECAUTIONS

- Storage:** Keep container tightly closed and away from heat and flame.
- Caution:** Avoid prolonged skin contact with used motor oils. Continuous contact with used oil has caused skin cancer in laboratory animals. Wash skin thoroughly with soap and water. Empty containers may contain residues that can ignite. Consult appropriate federal, state and local authorities before reusing, reclaiming, reconditioning, recycling or disposing of empty containers or waste products.

### DOT Information:

Proper Shipping Name:	Petroleum Lubricating Oils
Hazard Class:	Non-Hazardous
Hazard Identification No.:	None assigned
Packaging Group:	None assigned
Placard:	None
Compatibility Category:	Group 33
CHRIS Code:	OMT

## 9.0 ENVIRONMENTAL DATA

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 313 - Toxic Chemicals:

The products represented by this MSDS may contain components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA as follows:

<u>Components</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
Zinc compounds	NA	< 2

#### Section 311 - Hazard Categories:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

Acute (Immediate Health Hazard):	<u>No</u>	Sudden Release of Pressure Hazard:	<u>No</u>
Chronic (Delayed Health Hazard):	<u>No</u>	Reactive Hazard:	<u>No</u>
Fire Hazard:	<u>No</u>		

#### Section 302(a) - Extremely Hazardous Substances:

This products represented by this MSDS are **not** known to contain any chemical components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 as established by Section 302(a) of SARA.

#### Clean Water Act (CWA):

Under Section 311(b)(4) of the CWA, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center: 800-424-8802.

#### Comprehensive Environmental Response, Compensation & Liability Act (CERCLA):

As defined by CERCLA, the term "hazard substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

#### New Jersey Worker and Community Right-to-Know Act:

Motor Oil

#### California Proposition 65 (The Safe Drinking Water and Toxics Enforcement Act):

This material is not known to contain chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5).

#### Toxic Substances Control Act (TSCA):

Reported in TSCA Inventory as:	Product	Components
CITGO Motor Oils SUS 200 - 400		X

## 10.0 LABELING

### **NOTE:**

This product has been determined not to be a physical or a health hazard as defined by the OSHA Hazard Communication Standard.

Avoid prolonged skin contact with used motor oil. Prolonged contact with used motor oil has been shown to cause cancer in laboratory animals.

After draining oil, wash skin thoroughly with soap and water. Clean oil-soaked clothing before reuse.

## 11.0 REFINED PETROLEUM OILS

The products listed on page one of this MSDS contain one or more of the following base oils.

<u>Chemical / Common Name</u>	<u>CAS No.</u>
Solvent Dewaxed, Heavy Paraffinic Distillate	64742-65-0
Solvent Refined, Heavy Paraffinic Distillate	64741-88-4
Solvent Refined, Light Paraffinic Distillate	64741-89-5
Hydrotreated Heavy Paraffinic Distillate	64742-54-7
Hydrotreated Light Paraffinic Distillate	64742-55-8
Hydrotreated Neutral Lubricating Oil	72623-87-1
Hydrotreated High-Viscosity Neutral Lubricating Oil	72623-85-9
Catalytic Dewaxed Paraffinic Oil	64742-70-7

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NA-Not Applicable

ND-No Data

NE-Not Established

CITGO Motor Oils SUS 200 - 400 (MO-S2b, September 24, 1997, CIN: 1767)

Page 7 of 7