



CITGO Supergard® 10W-30 Motor Oil

Material Safety Data Sheet

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

MSDS No. 20813
Revision Date 10/28/98

Hazard Rankings		
	HMIS	NFPA
Health Hazard	0	0
Fire Hazard	1	1
Reactivity	0	0

* = Chronic Health Hazard

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

Emergency Overview

Physical State Liquid.
Color Amber. **Odor** Mild Petroleum Odor

CAUTION!

Can cause mild skin irritation and inflammation.
Hot oil may cause thermal burns on contact.
"Used" motor oil has been associated with skin cancer in laboratory animals following extended contact.
This material can burn when preheated but will not ignite readily.
Spills may create a slipping hazard!

Protective Equipment

Minimum Requirements
See Section 8 for Details



SECTION 1: IDENTIFICATION

Trade Name	CITGO Supergard® 10W-30 Motor Oil	Technical Contact	(918) 495-5933
Product Number	20813	Medical Emergency	(918) 495-4700
CAS Number	Mixture	CHEMTREC Emergency	(800) 424-9300
Product Family	Lubricating Oil		
Synonyms	Motor Oil		

SECTION 2: COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
Highly-Refined Petroleum Lubricant Oils	Mixture	82.1
Zinc C1-C14 alkyldithiophosphate	68649-42-3	0 - 1
Proprietary Additives	Mixture	8 - 12
Viscosity Index Improver	Mixture	6 - 10

SECTION 3: HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact.

Signs and Symptoms of Acute Exposure

Inhalation No significant adverse health effects are expected to occur upon short-term exposure to this product. Aspiration of liquid into the lungs can cause severe lung damage or death.

Eye Contact This product can cause mild, transient, eye irritation with short-term contact with liquid or sprays.

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Skin Contact	This product can cause mild, transient skin irritation with short-term exposure.
Ingestion	If swallowed, no significant adverse health effects are anticipated. Ingestion can cause a laxative effect. If aspirated into the lungs, liquid can cause severe lung damage or death.
Chronic Health Effects Summary	Prolonged or repeated contact can cause mild skin irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne.
Conditions Aggravated by Exposure	Personnel with pre-existing skin disorders should avoid repeated or prolonged contact with this product.
Target Organs	Skin.
Carcinogenic Potential	This product is not believed to contain components that are considered carcinogenic by OSHA, IARC or NTP.

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).					
OSHA Health Hazard Classification			OSHA Physical Hazard Classification		
Irritant <input type="checkbox"/>	Toxic <input type="checkbox"/>		Combustible <input type="checkbox"/>	Explosive <input type="checkbox"/>	Pyrophoric <input type="checkbox"/>
Sensitizer <input type="checkbox"/>	Highly Toxic <input type="checkbox"/>		Flammable <input type="checkbox"/>	Oxidizer <input type="checkbox"/>	Water-reactive <input type="checkbox"/>
Corrosive <input type="checkbox"/>	Carcinogenic <input type="checkbox"/>		Compressed Gas <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>	Unstable <input type="checkbox"/>

SECTION 4: FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation	Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.
Eye Contact	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.
Skin Contact	Remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.
Ingestion	Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.
Notes to Physician	The viscosity range of the product(s) represented by this MSDS is 100 to 400 SUS at 100° F. Accordingly, upon ingestion there is a low to moderate risk of aspiration. Careful gastric lavage may be considered to evacuate large quantities of material. Subcutaneous or intramuscular injection requires prompt surgical debridement.

SECTION 5: FIRE FIGHTING MEASURES

NFPA Flammability Classification	OSHA/NFPA Class-IIIB combustible liquid. Slightly combustible!	
Flash Point/Method	CLOSED CUP: 199°C (390°F). (Pensky-Martens (ASTM D-93).). OPEN CUP: 222°C (431°F). (Cleveland.).	
Lower Flammable Limit	No data.	Upper Flammable Limit No data.
Auto-Ignition Temp.	Not available.	

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Hazardous Combustion Products	CO ₂ , CO, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, nitrogen, phosphorus and zinc.
Special Properties	When heated above its flash point temperature, this material will release vapors which, if exposed to an ignition source, can ignite. In enclosed spaces vapors can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.
Extinguishing Media	Use dry chemical, foam, Carbon Dioxide or water fog.
Fire Fighting Protective Clothing	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion/decomposition products and oxygen deficiencies.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid water contamination and temperatures above 150° F to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.
Storage	Keep container closed. Store in a cool, dry, well-ventilated area. Do not store at temperatures above 120° F or in direct sunlight. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.
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. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.



Eye Protection	Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely, especially if material is heated above 125°F (or 51°C). Have suitable eye wash water available.
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- Hand Protection** No special skin protection other than good personal hygiene practice is recommended under anticipated conditions of use. However, when prolonged or extensive contact is possible, use of disposable PCV or nitrile gloves is recommended. Wash hands with plenty of mild soap and water before eating, drinking, smoking, using toilet facilities, or leaving work.
- Body Protection** Avoid prolonged and/or repeated skin contact, especially after this product has been used in a crankcase. If splashing or spraying is expected, chemical-resistant (Tyvek®, nitrile, or neoprene) protective clothing should be worn. This might include long-sleeves, apron, slicker suit, boots, and additional facial protection. If general contact occurs, promptly remove soaked clothing and take a shower. Contaminated leather goods should be removed promptly and discarded.
- Respiratory Protection** Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
- General Comments** Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. DO NOT use gasoline, kerosene, solvents, or harsh abrasive skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure limits shown below are suggested as minimum control guidelines.

Occupational Exposure Guidelines

Substance	Concentration (%)	Applicable Workplace Exposure Levels
Highly-Refined Petroleum Lubricant Oils	82.1	TWA: 5 STEL: 10 (mg/m ³) from ACGIH (TLV) TWA: 5 (mg/m ³) from OSHA (PEL) TWA: 5 STEL: 10 (mg/m ³) from NIOSH
Zinc C1-C14 alkyldithiophosphate	0 - 1	Not available.
Proprietary Additives	8 - 12	Not available.
Viscosity Index Improver	6 - 10	Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.	Color Amber.	Odor	Mild Petroleum Odor
Specific Gravity	0.88 (Water = 1)	pH Not applicable.	Vapor Density	>1 (Air = 1)
Boiling Point/Range	Not available.		Melting/Freezing Point	Not available.
Vapor Pressure	Not available.		Viscosity (cSt @ 40°C)	80.9
Solubility in Water	Insoluble in cold water.		Volatile Characteristics	Negligible volatility
Additional Properties	No additional information.			

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable.	Hazardous Polymerization	Hazardous polymerization not expected to occur.
Conditions to Avoid	Keep away from extreme heat and open flame.		
Materials Incompatibility	Strong oxidizers		
Hazardous Decomposition Products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.		

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SECTION 11: TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Highly-Refined Petroleum Lubricant Oils:

ORAL (LD50): Acute: >5000 mg/kg [Rat].
DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

Highly-Refined Petroleum Lubricant Oils: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Motor Oils: Used motor oil has caused cancer in lifetime skin painting studies with laboratory animals. Avoid prolonged or repeated contact with used motor oil. Use of good hygiene practices will reduce the likelihood of potential health effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No data.

Environmental Fate

Ecological effects testing has not been conducted on this product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway might be enough to cause a fish kill or create an anaerobic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

SECTION 14: TRANSPORT INFORMATION

DOT Status

Not a U.S. Department of Transportation regulated material.

Proper Shipping Name

Petroleum Lubricating Oil

Hazard Class

Not a DOT controlled material (United States).

Packing Group(s)

Not applicable.

UN/NA ID

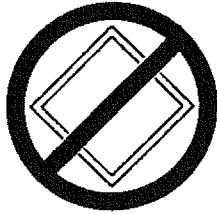
Not applicable.

Reportable Quantity

A Reportable Quantity (RQ) has not been established for this product.

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Placards



Emergency Response
Guide No.
HAZMAT STCC No.
MARPOL III Status

Not applicable.
Not applicable.
Not available.

SECTION 15: REGULATORY INFORMATION

TSCA	This product and/or its components are listed on the Toxic Substance Control Act (TSCA) inventory. TSCA 12(b) annual export notification: No products were found. TSCA 12(b) one time export: No products were found.
SARA 302/304 SARA 311/312	SARA 302/304 emergency planning and notification: No products were found. The Superfund Amendments and Reauthorization Act of 1989 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313	SARA 313 toxic chemical notification and release reporting: Zinc C1-C14 alkylidithiophosphate;
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.
CWA	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spill which product a visible sheen on waters of the United States, adjoining shorelines or into conduits leading into surface waters, must be reported to the National Response Center at (800) 424-8802.
California Proposition 65	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.
New Jersey Right-to-Know Label Additional Regulatory Remarks	No additional regulatory remarks

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SECTION 16: OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number 1.0
Revision Date 10/28/98
Print Date Printed on 10/29/98.

ABBREVIATIONS

AP = Approximately EQ = Equal GT = Greater Than LT = Less Than NA = Not Applicable ND = No Data
NE = Not Established

—ACGIH = American Conference of Governmental Industrial Hygienists

—IARC = International Agency for Research on Cancer
NIOSH = National Institute of Occupational Safety and Health

NPCA = National Paint and Coating Manufacturers Association

NFPA = National Fire Protection Association

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***** END OF MSDS *****