

# **Material Safety Data Sheet**

CITGO Petroleum Corporation

P.O. Box 4689 MSDS No. 669347001 Houston, TX 77210 Revision Date 3/15/2007

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

# **Emergency Overview**

Physical State Liquid.

Color Colorless. Odor Odorless.

**WARNING!** 

If liquid material is swallowed, contact a physician.

Do not induce vomiting.

If liquid material enters the lungs, it can cause severe damage. Spills may create a slipping hazard.

# **Hazard Rankings**

#### HMIS NFPA

Health Hazard 0 0 Fire Hazard 1 1

Reactivity 0 0

\* = Chronic Health Hazard

# **Protective Equipment**

Minimum Recommended See Section 8 for Details



# SECTION 1. PRODUCT IDENTIFICATION

Trade Name CITGO Duoprime® Oil 70 Technical Contact (800) 248-4684

Product Number 669347001 Medical Emergency (832) 486-4700

**CAS Number** 8042-47-5 **CHEMTREC Emergency** (800) 424-9300

(United States Only)

Product Family White mineral oil

**Synonyms** White mineral oil;

CITGO® Material Code: 669347001 and 969347

# **SECTION 2. COMPOSITION**

Component Name(s) CAS Registry No. Concentration (%)

White mineral oil 8042-47-5 100 di alpha tocopherol (Vitamin E) (Stabilizer) 59-02-9 <0.1

# **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 Not applicable.

Signs and Symptoms of Acute Exposure

**Inhalation** No significant adverse health effects are expected to occur upon short-term exposure.

**Eye Contact** Minimal eye irritation may result from short-term contact with liquid, mist, and/or vapor.

**Skin Contact**No significant irritation is expected to occur upon short-term exposure.

**Ingestion** Ingestion can cause a laxative effect. If liquid material enters into the lungs, it can cause

severe damage.

Chronic Health Effects

No significant signs or symptoms indicative of any adverse health effects are expected to

occur.

Conditions Aggravated None known.

by Exposure

**Summary** 

**Target Organs** 

No target organ effects are anticipated.

**Carcinogenic Potential** 

This product is not known to contain any components at concentrations above 0.1% which

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 Toxic Corrosive		Sensitizer Highly Toxic Carcinogenic		Combustible Flammable Compressed Gas		Explosive Oxidizer Organic Peroxide		Pyrophoric Water-reactive Unstable	

# 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** 

If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Clean or discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.

Ingestion

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

**Notes to Physician** 

SKIN: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

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# SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability

Classification

NFPA Class-IIIB combustible material.

**Flash Point** Open cup: 166°C (331°F) (Cleveland.).

Lower Flammable Limit No data. Upper Flammable Limit No data.

Autoignition

**Temperature** 

Not available.

**Products** 

Hazardous Combustion Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons.

**Special Properties** This material can burn but will not readily ignite. This material will release vapors when

heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor 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. Water or foam may cause frothing.

Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon

dioxide or inert gas in confined spaces.

**Protection of Fire** 

**Fighters** 

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or

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 contamination and extreme temperatures 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.

Keep container closed. Do not store with strong oxidizing agents. Do not store at elevated Storage temperatures. Avoid storing product in direct sunlight for extended periods of time. Consult

appropriate federal, state and local authorities before reusing, reconditioning, reclaiming,

recycling or disposing of empty containers or waste residues of this product.

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# 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 are recommended as minimum protection in

industrial settings. Wear goggles if splashing or spraying is anticipated. Wear goggles and

face shield if material is heated above 125°F (51°C). Have suitable eye wash water

available.

Hand Protection None required for incidental contact. Use gloves constructed of chemical resistant materials

such as heavy nitrile rubber if frequent or prolonged contact is expected. Use

heat-protective gloves when handling product at elevated temperatures.

**Body Protection** Use clean protective clothing if splashing or spraying conditions are present. Protective

clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and

protective clothing when handling material at elevated temperatures.

**Respiratory Protection** 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 abrasives as 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 Applicable Workplace Exposure Levels

Oil Mist, Mineral ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup> **OSHA (United States).** 

TWA: 5 mg/m<sup>3</sup>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Color Odor Odorless. **Physical State** Liquid. Colorless.

>1 (Air = 1) Vapor 0.84 (Water = 1)**Specific Gravity** Hq Not applicable

Density

Not available. **Boiling Range** Not available. Melting/Freezing

**Point** 

<0.1 mm of Hg (@ 20°C) AP 43 g/I VOC (w/v) **Vapor Pressure** Volatility

Negligible solubility in cold water. **Viscosity** Solubility in 13

(cSt @ 40°C) Water

**Flash Point** Open cup: 166°C (331°F) (Cleveland.).

Gravity, OAPI (ASTM D287) = AP 34.0 @ 600 F Additional

Density = AP 7.10 Lbs/gal. **Properties** 

Viscosity (ASTM D2161) = AP 72 SUS @ 100° F

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization Not expected to occur. **Chemical Stability** Stable.

**Conditions to Avoid** Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

Strong oxidizers. **Materials** 

Incompatibility

**Products** 

No additional hazardous decomposition products were identified other than the combustion Hazardous

products identified in Section 5 of this MSDS. **Decomposition** 

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 White Mineral Oil** 

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

Low-viscosity and High-viscosity White Mineral Oils: DRAIZE EYE, Acute: Non-irritating [Rabbit]. DRAIZE DERMAL, Acute: Non-irritating [Rabbit]. BUEHLER, Acute: Non-sensitizing [Guinea Pig]. 28-Day DERMAL, Sub-Chronic: Non-irritating [Rabbit].

104-Week DERMAL, Chronic: No skin tumors at site of application [Mouse].

MUTAGENICITY:

Modified Ames Assay: Negative [Salmonella typhimurium]. in-vitro Lymphoma Assay: Negative or no toxicity [Mouse].

Lifetime mouse skin painting studies indicated that white mineral oils are not mutagenic or carcinogenic. 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

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species tested.

# SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Analysis for ecological effects has not been conducted on this product. However, if spilled,

this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can

be harmful or fatal to aquatic life and waterfowl.

**Environmental Fate** An environmental fate analysis is not available for this specific product. Plants and animals

may experience harmful or fatal effects when coated with petroleum products.

Petroleum-based (mineral) lubricating oils normally will 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 may be sufficient 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 your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose this product's empty container to heat, flame, or other ignition sources. DO NOT attempt to clean it. Empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

**Emergency Response** 

#### **SECTION 14. TRANSPORT INFORMATION**

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

**US DOT Status**Not regulated by the U.S. Department of Transportation as a hazardous material.

**Proper Shipping Name** Not regulated.

Placard(s)

Hazard Class Not regulated. Packing Group(s) Not applicable.

UN/NA Number Not regulated.

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

Guide No.

MARPOL III Status

Not a DOT "Marine Pollutant" per 49 CFR

Not applicable.

171.8.

# SECTION 15. REGULATORY INFORMATION

**TSCA Inventory** 

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 Emergency Planning and Notification The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 311/312 Hazard Identification

The Superfund Amendments and Reauthorization Act of 1986 (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:

No SARA 311/312 hazard categories identified.

SARA 313 Toxic Chemical Notification and Release Reporting This product contains the following 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: No components were identified.

**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.

Clean Water Act (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 spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California Proposition 65

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

New Jersey Right-to-Know Label Petroleum Oil

Additional Remarks

Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains "Petroleum Distillates" which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Petroleum Distillates! Harmful or fatal if swallowed! Call Physician Immediately. KEEP OUT OF REACH OF CHILDREN!** 

# **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 1.5

Revision Date 3/15/2007

**ABBREVIATIONS** 

AP: Approximately EQ: Equal >: Greater Than <: Less Than

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

NA: Not Applicable ND: No Data NE: Not Establishe

AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration HMIS: Hazardous Materials Information System

EPA: US Environmental Protection Agency

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