



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

## Material Safety Data Sheet

Trade Name: CITGO No. 2 Diesel Fuel  
Commodity Code: 10-104  
Synonyms: Fuel Oil Date: November 22, 1991  
CAS No.: Mixture Technical Contact: (918) 495-5933  
(Refer to Section 1) Medical Emergency: (318) 491-6215  
Chemtrec Emergency: (800) 424-9300  
Citgo Index No.: 0093

### Material Hazard Evaluation

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

Health: Low hazard under ambient conditions. Vapors, mists and fumes hazardous.

Precautionary Statement: **CAUTION:** Combustible Liquid. Do not inhale vapors, fumes, or mists. Prevent dermal contact.

HMIS Rating<sup>1</sup>: Health 0 Flammability 2 Reactivity 0

### 1.0 Generic Composition / Components

<u>Components</u>	<u>CAS #</u>	<u>%</u>	<u>Hazard Data</u>
Diesel Fuel C <sub>7</sub> -C <sub>13</sub> aliphatic and naphthenic hydrocarbons	Mixture	> 99	Oral: LdLo(hm): 500-5000 mg/kg
Additives (corrosion inhibitors)	Mixture	< 1	Non-hazardous

<sup>1</sup> Hazard Rating: least-0; slight-1; moderate-2; high-3; extreme-4  
Citgo assignment based on our evaluation per NFPA and NPCA guidelines.

## 2.0 Physical Data

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

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

Boiling Point, 760 mmHg, °C(°F): 125(257)  
 Specific Gravity (60/60°F) (H<sub>2</sub>O = 1): 0.87  
 Vapor Density (Air = 1): > 1  
 % Volatiles by Volume: ND  
 Melting Point, °C(°F): NA  
 Vapor Pressure, mmHg (25°C): ~ 2 mmHg  
 Solubility in H<sub>2</sub>O, % by Weight: Negligible  
 Evaporation Rate (Butyl Acetate = 1): < 1  
 pH of Undiluted Product: ND  
 Appearance and Odor: Water white to lemon

## 3.0 Fire and Explosion Data

Flash Point, COC, °C(°F)	52-85(125-180)
Flash Point, PM, °C(°F)	ND
Fire Point, COC, °C(°F)	ND
NFPA Rating <sup>2</sup>	Health: 1 Flammability: 2 Reactivity: 0
Flammable Limits (% by volume in air)	Lower: 0.7 Upper: 5.0
Extinguishing Media	CO <sub>2</sub> , dry chemical, foam, water fog
Special Fire Fighting Procedure	Wear self-contained breathing apparatus when in a confined area. Treat as kerosine fire.
Unusual Fire or Explosion Hazard	Material is highly volatile and emits vapors which may be ignited by other ignition sources.

## 4.0 Reactivity Data

*Stability:* Stable  
*Conditions Contributing to Instability:* Heat, flame.  
*Incompatibility:* Caustics, oxidizing agents and strong acids.  
*Hazardous Decomposition Products:* CO<sub>2</sub>, (CO under incomplete combustion)  
*(thermal, unless otherwise specified)*  
*Conditions Contributing to Hazardous Polymerization:* None.

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

## 5.0 Spill or Leak Procedures

### Procedures if Material is Spilled:

- Remove sources of ignition, ventilate area.
- *Small Spills:* Take up with noncombustible absorbant such as fullers earth or sand. Place into containers for later disposal.
- *Large Spills:* Contain spill in earthen dikes for later recovery. Control ignition sources around spill area. A fire-fighting foam blanket on top of spill will reduce vapor release and the danger of fire.
- Report spills as required to appropriate authorities.

### 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 Hotline Number: 800-424-9346.

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

- Refer to Section VII - Special Protection Information.
- Provide sufficient ventilation, eliminate all ignition sources.
- Wash exposed skin thoroughly with soap and water.
- Remove soiled clothing.
- Use oil impervious gloves if extended, direct contact is expected.

## 6.0 Health Hazard Data

### *Health Hazard Classification*

(Per 29 CFR Part 1910.1200)

No	Carcinogen	No	Corrosive
No	Animal Carcinogen	Yes	Irritant (Pulmonary)
No	Suspect Carcinogen	No	Sensitizer
No	Mutagen	No	Teratogen
No	Highly Toxic	Yes	Target Organ: Lungs, CNS (Depressant)
No	Toxic		

Product listed as Carcinogen or Potential Carcinogen by:

NTP No IARC Yes\* OSHA No Other No

\*Applies to diesel exhaust fumes only.

**Toxicity Summary:** Normally of low toxicity, except on ingestion, if misting occurs or dermal absorption.

**Major Route(s) of Entry:** Inhalation of fumes, mists or vapors. Dermal absorption.

## Acute Exposure Symptoms

<i>Inhalation:</i>	Mists or fumes above the TLV may cause transient euphoria, respiratory and GI irritation, headache, dizziness, CNS and generalized depression, coma, particularly in oxygen-deficient atmosphere.
<i>Dermal Contact:</i>	Mild temporary irritation.
<i>Eye Contact:</i>	Mild to moderate irritation.
<i>Ingestion:</i>	Toxic dose: 1 oz. to 1 pint for a human adult. Symptoms include burning of mouth and upper GI tract, vomiting and diarrhea. Less than 1 oz. with retention may produce general depression, sedation, respiratory and cardiac insufficiency and coma.
<i>Injection:</i>	Irritation, erythema, edema.

## Chronic Exposure

Prolonged, repeated dermal contact may cause drying, cracking, dermatoses.

## Other Special Effects

The Occupational Safety and Health Administration recommends that diesel exhaust be considered as a potential occupational carcinogenic hazard. Exposure to diesel exhausts should be minimized to reduce risk.

## Medical Conditions Aggravated by Exposure

Pre-existing dermatosis.

## *First Aid and Emergency Procedures for Acute Effect*

<i>Inhalation:</i>	Remove from exposure, seek immediate medical aid.
<i>Dermal:</i>	Wash with soap and water. Do not wear heavily contaminated clothing before cleaning.
<i>Eyes:</i>	Flush with large volumes of tepid water.
<i>Ingestion:</i>	Do not induce vomiting. Seek medical aid.
<i>Injection:</i>	Seek immediate medical aid.

**Notes to Physician:** This is a low viscosity material, with a Saybolt viscosity at 100°F of 32.6-40 SUS. If ingestion and vomiting occurs, there exists a high pulmonary aspiration hazard, possibly inducing lipoid pneumonia. For quantities above a few drops, use careful gastric lavage with tight fitting, cuffed endotracheal tube.

## 7.0 Special Protection Information

**Ventilation Requirements:** Use in well ventilated area. In confined spaces, mechanical ventilation may be required to keep levels of certain components below mandated standards. Responsible individuals should evaluate air concentrations of specific regulated chemicals.

Permitted Threshold: None assigned.  
Air Concentrations

### Specific Personal Protective Equipment:

**Respiratory:** Approved organic respirator above the TLVs.

**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. Remove fuel oil soaked clothing since it presents a fire hazard. Launder soiled work clothes before reuse.

## 8.0 Transportation and Special Precautions

**Storage:** Keep container tightly closed and away from heat and flame. Do not store with strong oxidizers.

**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.

### *DOT Information*

Proper Shipping Name:	Fuel Oil
Hazard Class:	Combustible liquid
Hazard Identification Number:	NA 1993
Placard:	Combustible liquid
Compatibility Category*:	Group 33
CHRIS Code:	ODS

\*DOT - Coast Guard



## 10.0 Labeling

**CAUTION:**

*CONTAINS PETROLEUM DISTILLATES  
COMBUSTIBLE LIQUID  
HARMFUL IF SWALLOWED*

**HANDLING:**

*Keep away from heat, sparks and flames.  
Keep container closed.  
Do not breathe vapor.  
Prevent direct dermal contact.*

**FIRST AID:**

*If swallowed, do not induce vomiting.  
Call a physician immediately.  
In case of contact, remove contaminated  
clothing immediately and wash thoroughly  
with soap and water.*

---

ALL STATEMENTS, INFORMATION, AND DATA PROVIDED IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO BE ACCURATE AND RELIABLE, BUT ARE PRESENTED WITHOUT GUARANTEE, REPRESENTATION, WARRANTY, OR RESPONSIBILITY OF ANY KIND, EXPRESSED OR IMPLIED. ANY AND ALL REPRESENTATIONS AND/OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE. NOTHING CONTAINED HEREIN IS INTENDED AS PERMISSION, INDUCEMENT, OR RECOMMENDATION TO VIOLATE ANY LAWS OR TO PRACTICE ANY INVENTION COVERED BY EXISTING PATENTS, COPYRIGHTS OR INVENTIONS.