

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

Material Safety Data Sheet

Trade Name:

CITGO Unleaded Gasoline

Commodity Code:

04-001

Synonyms:

Motor Gasoline, Petrol, Gas

Date: February 10, 1989

CAS No.:

Mixture

Technical Contact: (918) 495-5933 Medical Emergency: (318) 491-621:

(Refer to Section 1)

Medical Emergency: (318) 491-6215 Chemtree Emergency: (800) 424-9300

Citgo Index No.: 0083

Material Hazard Evaluation

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

Health: DANGER: Contains Benzene - cancer hazard.

Harmful or fatal if swallowed. Vapors hazardous.

Precautionary Statement: DANGER: Extremely flammable liquid. Do not siphon by mouth. If swallowed,

do not induce vomiting - call physician immediately.

HMIS Rating1:

Health 1

Flammability 3

Reactivity 0

1.0 Generic Composition / Components

Components	CAS#	%	Hazard Data
Petroleum Distillates Benzene	Mixture 71-43-2	85-98 < 5	Oral: LDLo(human): 0.5-5.0g/kg OSHA PEL: TWA 1 ppm
Lower Aliphatic Alcohols	Mixture	0-11	Oral: LD50(ms): 4700mg/kg. Oral: LD50(rat): > 5.0g/kg Dermal LD50(rat): > 5.0g/kg
Lower Aliphatic Ethers	Mixture	0-15	Inhn TClo(Human): ~25 ppm Oral LD50(rat): 4 ml/kg Dermal LD50(rbt): > 10 ml/kg Eyes: Mild irritant

Alcohols, alkylethers and similar additives, do not significantly alter the toxicity of Unleaded Gasoline.

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)

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

Boiling Point, 760 mmHg, °C(°F): 35(95)

Specific Gravity $(60/60^{\circ}F)$ (11,0 = 1): 0.75

Vapor Density (Air = 1): 3-4
% Volatiles by Volume: High

Melting Point, *C(*F): NA Vapor Pressure, mmHg (25*C): 510-760

Solubility in II,O, % by Weight: Negligible

Evaporation Rate (Butyl Acetate = 1):

pH of Undiluted Product: ND

Appearance and Odor: Light yellow or clear liquid - gasoline odor

3.0 Fire and Explosion Data

Flash Point, COC, *C(*F)	-43(-45)
Flash Point, PMC, *C(*F)	ND
· Fire Point, COC, °C(°F)	ND
NFPA Rating ²	Health: 1 Flammability: 3 Reactivity: 0
Flammable Limits (% by volume in air)	Lower: 1.4 Upper: 7.6
Extinguishing Media	CO _r dry chemical, foam, water fog
Special Fire Fighting Procedure	Wear self-contained breathing apparatus when in a confined area.
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: High Temperature, flame.

Incompatibility: Strong oxidants, strong acids, caustics.

Hazardous Decomposition Products: CO₂ (CO under incomplete combustion).

(thermal, unless otherwise specified)

Conditions Contributing to Hazardous

Polymerization: Nonc.

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 non-combustible 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 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	Conosive
	Animal Carcinogen	Yes	Irritant
Yes	Suspect Carcinogen	No	Sensitizer
No		No	Teratogen
No	Mutagen		Target Organ: Hematopoietic, respirator
No	Highly Toxic	Yes	system, skin
Nσ	Toxic		

Product listed as Carcinogen or Potential Carcinogen by:

NTP No IARC No OSIIA No Other Yes (API studies)

Toxicity summary: Moderately toxic: 0.3 to 8 oz. may be a lethal oral dose for 150 lb. human.

Major Route(s) of Entry: Vapors, inhalation, and skin contact.

Acute Exposure Symptoms

Inhalation:

Moderate risk of vapor intoxication. Major risk in enclosed spaces with poor ventilation. Euphoria, lung irritation and edema, headache, dizziness,

drowsiness, convulsions, coma, cyanosis, generalized depression.

Dermal Contact:

Defatting with drying of skin.

Eye Contact:

Irritant.

Ingestion:

Burning of mouth and upper GI tract, vomiting and diarrhea. Above 1 oz. or less than 1 oz. with retention: general depression, sedation, respiratory de-

pression, coma.

Chronic Exposure

Skin:

Drying of skin (dermatitis)

Inhalation:

Benzene has been classified as a leukemogen, and may produce anemia, leukemia from repeated or prolonged exposure to high concentrations. The American Petroleum Institute sponsored chronic inhalation studies of unleaded gasoline vapors indicating unleaded gasoline is carcinogenic to laboratory animals.

Other Special Effects

None

Medical Conditions Aggravated by Exposure

Pre-existing dermatoses.

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

Dage 4

cleaning.

Eyes:

Flush with large volumes of water. Seek medical aid.

Ingestion:

Do not induce vomiting. Seek medical aid.

Notes to Physician: This is a low viscosity material with a Saybolt viscosity at 100°F of less than 40 SUS. Pulmonary high aspiration hazard, possibly producing lipoid pneumonia if swallowed and vomiting occurs. Use careful gastric lavage with tight fitting, cuffed endotracheal tube.

NA - Not Applicable ND - No Data NE - Not Established

Special Protection Information 7.0

Ventilation Requirements:

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

TLV:

TWA (Time Weighted Average): 300 ppm (900 mg/m³)

STEL (Short Term Exposure): 500 ppm (1500 mg/m³)

ACGIII-1987-88.

Specific Personal Protective Equipment: If high vapor concentration is expected, use approved organic

respirator.

Eyes:

Safety glasses, or chemical goggles, with side shields, if splashing is

anticipated.

Dermal:

Oil impervious gloves, such as Nitrile-Butadiene rubber gloves, if fre-

quent or prolonged contact is expected.

Other Clothing or Equipment:

Wear body-covering garments to prevent prolonged or repeated direct dermal exposure. Remove gasoline soaked clothing since it presents a fire hazard. Launder before reuse. Treat gasoline generally as

leukemogenic and potentially carcinogenic material.

Transportation and Special Precautions 8.0

Storage:

Keep container tightly closed and away from heat and flame and strong oxiders (NFPA Class

IA Flammable). Do not store with strong oxidizers.

Caution:

Empty containers may contain product residue which could produce flammable and 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:

Hazard Class:

Hazard Identification Number:

Placard:

Packaging Exceptions/Restrictions:

Compatibility Category:

Gasoline.

Flammable Liquid.

UN 1203.

Flammable Liquid.

Refer to: 49CFR173.118

49CFR173.119

Group 33

NE - Not Established

9.0 Environmental Data

Product Name Commodity Code: CITGO Unleaded Gasoline

ing fare to

04-001

SARA TITLE III

Section 313 - Toxic Chemicals

This product contains toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

<u>CAS#</u>	<u>%</u>
71-43-2 75-65-0 100-41-4 1634-04-4 108-88-3 95-63-6 1330-20-7	0-5 0-10 0-5 0-15 0-25 0-5 0-25
	71-43-2 75-65-0 100-41-4 1634-04-4 108-88-3 95-63-6

Section 311 - Hazard Categories

No Not A	oplicable
Yes Acute (Immediate Health Hazard)
Yes Chronic	c (Delayed Health Hazard)

Yes Fire Hazard
No Sudden Pressure Release
No Reactivity Hazard

Section 302/(A) - Extremely Hazardous Substances

(R() = Reportable Quantity)

(TPQ = Threshold Planning Quantity)

This product does not contain Extremely Hazardous Substances of Section 302/(Λ).

Component None CAS#

<u>%</u>

RO lbs

TPO lbs.

Clean Water Act

Under Section 311 (b) (4) of the Clean Water Act, 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) - Section 102 Hazardous Substances

Component None CAS#

%

RQ lbs.

l'etroleum and petroleum fractions are excluded from the list of CERCLA hazardous substances by Section 101(14) of CERCLA.

10.0 Labeling

DANGER

Contains BENZENE - Cancer Hazard Extremely flammable Harniful or fatal if swallowed

Handling

Keep away from heat, sparks, and flames.
Keep container closed.
Do not breathe vapors.
Use only with adequate ventilation.
Do not siphon by mouth.

This product contains benzene and certain other hydrocarbons which are potentially toxic and carcinogenic. Avoid repeated or prolonged contact with skin.

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.

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