



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°F) (H₂O = 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 H₂O, % by Weight: Negligible
 Evaporation Rate (Butyl Acetate = 1): < 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 ₂ , 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: None.

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

NA - Not Applicable

ND - No Data

NE - Not Established

WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

5.0 Spill or Leak Procedures

Procedures if Material is Spilled:
 If leak is in user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

- **Small spills:** Take up with non-combustible absorbent such as hullers, earth or sand. Place into containers for later disposal.

SPILL OR LEAK PROCEDURES

<ul style="list-style-type: none"> • 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. 	Will Not Occur May Occur None
Waste Disposal: <ul style="list-style-type: none"> • 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. 	HAZARDOUS POLYMERIZATION HAZARDOUS DECOMPOSITION PRODUCTS ALL flammable materials INCOMPATIBILITY (Materials to avoid)
Protective Measures During Repair and Maintenance of Contaminated Equipment: <ul style="list-style-type: none"> • Refer to Section VII - Special Protection Information. • Provide sufficient ventilation, eliminate all ignition sources. 	Stable Unstable STABILITY

REACTIVITY DATA

- Wash exposed skin thoroughly with soap and water.
- Remove soiled clothing.
- Use impervious gloves if extended, direct contact is expected.

 Vigorously accelerates combustion.

6.0 Health Hazard Data

Health Hazard Classification

FLASH POINT (Method used) N/A	AUTO IGNITION TEMPERATURE N/A	FLAMMABLE LIMITS BY VOLUME N/A (Per 29 CFR Part 1910.101)	EXTINGUISHING MEDIA Copious quantities of water for fires with electrical classification.
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FIRE AND EXPLOSION HAZARD DATA		APPEARANCE AND ODOR	
Colorless, odorless gas	Yes	Irritant	Yes
Sensitizer	No	Teratogen	No
Target Organ: Hematopoietic, respiratory system, skin	Yes	Highly Toxic	No
Boiling Point: -297.3°F (-182.9°C)		Other (API studies)	No

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.

Oxygen vigorously accelerates combustion. Contact with all flammable materials should be avoided. Some materials which are not flammable in air will burn in pure oxygen or oxygen-enriched atmospheres.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

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 depression, 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 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.

9.0 Environmental Data

Product Name: CITGO Unleaded - 87 Octane Gasoline
 Commodity Code: 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>Components</u>	<u>CAS#</u>	<u>%</u>
Benzene	71-43-2	0-5
Tertiary Butyl Alcohol	75-65-0	0-10
Ethyl Benzene	100-41-4	0-5
Methyl-t-butyl ether	1634-04-4	0-15
Toluene	108-88-3	0-25
1,2,4 Trimethyl Benzene	95-63-6	0-5
Xylene (mixed isomers)	1330-20-7	0-25

Section 311 - Hazard Categories

<u>No</u> Not Applicable	<u>Yes</u> Fire Hazard
<u>Yes</u> Acute (Immediate Health Hazard)	<u>No</u> Sudden Pressure Release
<u>Yes</u> Chronic (Delayed Health Hazard)	<u>No</u> Reactivity Hazard

Section 302/(A) - Extremely Hazardous Substances

(RO = Reportable Quantity)
 (TPQ = Threshold Planning Quantity)

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

<u>Component</u>	<u>CAS#</u>	<u>%</u>	<u>RQ lbs.</u>	<u>TPQ lbs.</u>
None	-	-	-	-

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

<u>Component</u>	<u>CAS#</u>	<u>%</u>	<u>RQ lbs.</u>
None	-	-	-

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

California Proposition 65

WARNING: THIS PRODUCT CONTAINS A DETECTABLE AMOUNT OF A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

10.0 Labeling

DANGER

*Contains BENZENE - Cancer Hazard
Extremely flammable
Harmful 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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