

===== Product Identification =====

Product ID:CITGO UNLEADED GASOLINE 04-001

MSDS Date:10/24/1988

FSC:9130

NIIN:00-148-7103

MSDS Number: BGWTK

=== Responsible Party ===

Company Name:CITGO PETROLEUM CORP

Address:6100 S YALE BLDG 1 WARREN PL

Box:3758

City:TULSA

State:OK

ZIP:74102

Country:US

Info Phone Num:918-561-5165

Emergency Phone Num:918-561-5165

CAGE:7X110

=== Contractor Identificati

on ===

Company Name:CITGO PETROLEUM CORP

Address:6100 S YALE AVE

Box:3758

City:TULSA

State:OK

ZIP:74102

Country:US

Phone:918-495-5933

CAGE:7X110

===== Composition/Information on Ingredients =====

Ingred Name:BENZENE (SARA III)

CAS:71-43-2

RTECS #:CY1400000

Fraction by Wt: 0-5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1PPM/5STEL;1910.1028

ACGIH TLV:10 PPM; A2; 9192

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:TERT-BUTYL ALCOHOL (SARA III)

CAS:75-65-0

RTECS #:EO1925000

F

Fraction by Wt: 0-10%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:100PPM 9394

Ingred Name:ETHYL BENZENE (SARA III)  
CAS:100-41-4  
RTECS #:DA0700000  
Fraction by Wt: 0-5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM/125 STEL  
ACGIH TLV:100 PPM/125STEL 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL TERT-BUTYL ETHER (SARA III)  
CAS:1634-04-4  
RTECS #:KN5250000  
Fraction by Wt: 0-15%  
Other REC Limits:NONE SPECIFIED  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:TOLUENE (SARA III)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 0-25%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:1,2,4-TRIMETHYLBENZENE (SARA III)  
CAS:95-63-6  
RTECS #:DC3325000  
Fraction by Wt: 0-5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:25 PPM  
ACGIH TLV:25 PPM; 9192

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: 0-25%  
Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/150 STEL  
ACGIH TLV:100 PPM/150STEL;9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >5G/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: MODERATE RISK OF VAPOR  
INTOXICATION. MAJOR RISK IS ENCLOSED SPACES WITH POOR VENTILATION.  
SKIN: DEFATTING WITH DRYING AND CR  
ACKING CAN LEAD TO DERMATITIS AND  
SECONDARY INFECTION. EYE: IRRI TANT. INGESTION: BURNING OF MOUTH  
AND UPPER GI TRACT, VOMITING AND DIARRHEA. PROLONGED OR REPEATED  
CONTACT: DERMATITIS.  
Explanation of Carcinogenicity:API SPONSORED CHRONIC INHALATION STUDIES  
OF UNLEADED GASOLINE VAPORS INDICATE THAT IT IS CARCINOGENIC TO LAB  
ANIMALS.  
Effects of Overexposure:INHALATION MAY CAUSE EUPHORIA, LUNG IRRITATION  
AND EDEMA, HEADACHE, DIZZINESS, DROWSINESS, CONVULSIONS, COMA,  
CYAN  
OSIS, GENERALIZED DEPRESSION. INGESTION MAY CAUSE GENERAL  
DEPRESSION, SEDATION, RESPIR ATORY DEPRESSION, COMA.  
Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING  
DERMATITIS.

===== First Aid Measures =====

First Aid:EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING  
EYELIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH  
SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. FOR RESPIRATORY  
DISTRESS, GIVE AIR, O  
XYGEN, OR CPR IF NECESSARY. INGESTION: DO NOT  
INDUCE VOMITING. KEEP HEAD BELOW HIPS IF VOMITING OCCURS TO PREVENT  
ASPIRATION INTO LUNGS. GET MEDICAL ATTENTION IF REQUIRED IN ALL  
CASES.

===== Fire Fighting Measures =====

Flash Point Method:COC  
Flash Point:-45F,-43C  
Lower Limits:1.4  
Upper Limits:7.6  
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WHEN  
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N A CONFINED AREA.

Unusual Fire/Explosion Hazard:MATERIAL IS HIGHLY VOLATILE AND EMITS VAPORS WHICH MAY BE IGNITED BY OTHER IGNITION SOURCES.

===== Accidental Release Measures =====

Spill Release Procedures:SMALL: TAKE UP WITH NON COMBUSTIBLE ABSORBENT SUCH AS FULLERS EARTH OR SAND. PLACE INTO CONTAINERS FOR LATER DISPOSAL. LARGE: CONTAIN SPILL IN EARTHEN DIKES FOR LATER RECOVERY. CONTROL IGNITION SOURCE S AROUND SPILL AREA. REPORT SPILLS AS REQUIRED.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID STATIC IGNITION HAZARD WHEN TRANSFERRING MATERIAL. KEEP CONTAINERS CLOSED AND AWAY FROM HEAT & IGNITION SOURCES! DO NOT USE AS CLEANING AGENT.

Other Precautions:EMPTY CONTAINERS RETAIN SOME LIQUID/VAPOR RESIDUES; HAZARD PRECAUTIONS MUST BE OBSERVED WHEN HANDLING EMPTIES. KEEP OUT OF REACH OF CHILDREN! DO NOT USE ANY HYDROCARBON FUEL IN SPACES WITHOUT ADEQUATE VENTILATION. USE ONLY AS A FUEL.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:A NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR, SUPPLIED AIR, OR SELF-CONTAINED BREATHING APPARATUS (SCBA) MUST BE USED WHEN VAPOR CONCENTRATIONS EXCEED THE OCCUPATIONAL EXPOSURE LIMITS.

Ventilation:USE ADEQUATE VENTILATION TO KEEP VAPOR CONCENTRATIONS OF THIS MATERIAL BELOW THE OCCUPATIONAL EXPOSURE LIMITS.

Protective Gloves:WEAR OIL IMPERVIOUS (EG: NITRILE ) GLOVES

Eye Protection:USE CHEMICAL SAFETY GOGGLES & FACESHIELD

Other Protective Equipment:OIL IMPERVIOUS INDUSTRIAL WORK CLOTHING TO MINIMIZE SKIN CONTACT. EYE BATH AND SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices:USE GOOD PERSONAL HYGIENE. USE WATERLESS HAND CLEANER TO WASH EXPOSED SKIN. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THE VARIABLE COMPOSITION MAKES IT IMPOSSIBLE TO SET A SPECIFIC EXPOSURE LIMIT FOR ALL COMPOSITIONS OF THIS MATE

## RIAL. SPECIFIC EXPOSURE

LIMITS FOR POTENTIAL COMPONENTS SUCH AS BENZENE SHOULD BE APPLIED  
BASED ON AIR MONITORING TO ASSURE EMPLOYEES ARE NOT EXPOSED TO  
EXCESSIVE VAPOR LEVELS OF COMPONENTS.

### ===== Physical/Chemical Properties =====

HCC:F1

Boiling Pt:=35.C, 95.F

Vapor Pres:>510

Vapor Density:3-4

Spec Gravity:0.75

Evaporation Rate & Reference:95

### ===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoi

d:YES

STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS, STRONG ALKALIS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES  
OF IGNITION.

Hazardous Decomposition Products:BURNING OR EXCESSIVE HEATING MAY  
PRODUCE CARBON MONOXIDE AND OTHER HARMFUL GASES/VAPORS.

### ===== Disposal Considerations =====

Waste Disposal Methods: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 REG ULATIONS. CHEMTREC/RCRA EMER.  
NO.:800-424-9346

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