



MATERIAL SAFETY DATA SHEET

Phillips Aviation Gasoline, 100 LL

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phillips Aviation Gasoline, 100 LL
Product Code: 21223
Intended Use: Fuel Aviation Gasoline
Synonyms: 100 Low Lead Gasoline
100 Octane Aviation
ASTM 100/130 Aviation Gasoline
Avgas
Avgas 100
Motor Fuel
Petrol

Chemical Family: Petroleum Hydrocarbon

Responsible Party: 66 Aviation Products
A Division of ConocoPhillips
600 N. Dairy Ashford
Houston, Texas
77079-1175

Customer Service: 918-661-6991
Technical Information: 918-661-6991

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300

Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Cancer hazard. Contains benzene. Overexposure may cause damage to the blood, peripheral nervous system. Causes severe skin irritation. Causes eye irritation. May be harmful or fatal if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use ventilation adequate to keep exposure below recommended limits, if any. Vapor harmful. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling. Wear appropriate personal protective equipment.

Physical Hazards/Precautionary Measures: Keep away from heat, sparks, flames, static electricity or other sources of ignition. Extremely flammable liquid and vapor. Vapor can cause flash fire.

Appearance: Blue
Physical Form: Liquid
Odor: Gasoline-like

NFPA 704 Hazard Class:

Health: 2 (Moderate)
Flammability: 3 (High)
Instability: 0 (Least)

HMIS Hazard Class:

Health: 2* (Moderate)
Flammability: 3 (High)
Physical Hazards: 0 (Least)

* Indicates possible chronic health effects.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS					
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Gasoline NONE	100	300 ppm TWA 890 mg/m ³ TWA 500 ppm STEL 1480 mg/m ³ STEL	NE	NE	NE
Xylenes 1330-20-7	1-15	100 ppm TWA 434 mg/m ³ TWA 150 ppm STEL 651 mg/m ³ STEL	100 ppm TWA 435 mg/m ³ TWA	900 ppm IDLH	NE
Toluene 108-88-3	1-10	50 ppm TWA SKIN	200 ppm TWA 300 ppm CEIL 500 ppm 10 min. peak	500 ppm IDLH	NE
Ethyl Benzene 100-41-4	1-5	100 ppm TWA 434 mg/m ³ TWA 125 ppm STEL 543 mg/m ³ STEL	100 ppm TWA 435 mg/m ³ TWA	800 ppm IDLH	NE
1,2,4-Trimethyl Benzene 95-63-6	1-5	25 ppm TWA 123 mg/m ³ TWA Mixed Isomers	NE	NE	NE
n-Hexane 110-54-3	<4	50 ppm TWA SKIN	500 ppm TWA	1100 ppm IDLH	NE
Cyclohexane 110-82-7	<3	100 ppm TWA	300 ppm TWA 1050 mg/m ³ TWA	1300 ppm IDLH	NE
Benzene 71-43-2	<0.5	0.5 ppm TWA 1.6 mg/m ³ TWA 2.5 ppm STEL 8 mg/m ³ STEL - SKIN	1 ppm TWA 3 mg/m ³ TWA 5 ppm STEL 15 mg/m ³ STEL	500 ppm IDLH	NE
Tetraethyl Lead 78-00-2	<0.13	0.1 mg/m ³ TWA- SKIN	0.075 mg/m ³ TWA- SKIN	40 mg/m ³ IDLH	NE

All components are listed on the TSCA inventory.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.
NE=Not Established

Contains benzene. If exposure concentrations exceed the 0.5 ppm action level, OSHA requirements for personal protective equipment, exposure monitoring, and training may apply (29CFR1910.1028). Also see Section 4.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): Low to moderate degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include nausea, vomiting, flushing, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue), blurred vision, tremors, respiratory failure, unconsciousness, convulsions, death.

Cancer: Possible cancer hazard (see Sections 11 and 15).

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: No harm to the fetus was observed in laboratory animal studies.

Other Comments: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.

Pre-Existing Medical Conditions: Exposure to high concentrations of this material may increase the sensitivity of the heart to certain drugs. Persons with pre-existing heart disorders may be more susceptible to this effect (see Section 4 - Note to Physicians).

Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

Notes to Physician: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Federal regulations (29 CFR 1910.1028) specify medical surveillance programs for certain exposures to benzene above the action level or PEL (specified in Section (i)(1)(i) of the Standard). In addition, employees exposed in an emergency situation shall, as described in Section (i)(4)(i), provide a urine sample at the end of the shift for measurement of urine phenol.

5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:	< -35°F / -37°C (Estimate)
OSHA Flammability Class:	Flammable Liquid
NFPA Flammability Class:	No data
LEL%:	1.5
UEL%:	7.6
Autoignition Temperature:	824°F / 471°C

Unusual Fire & Explosion Hazards: This material is extremely flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Extremely flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage. Examples of approved materials are nitrile or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance:	Blue
Physical Form:	Liquid
Odor:	Gasoline-like
Odor Threshold:	No data
pH:	Not applicable
Vapor Pressure (mm Hg):	5.5-7.0 psia @ 100°F (38°C)
Vapor Density (air=1):	3-4
Boiling Point:	No data
Melting/Freezing Point:	-72°F / -58°C (Maximum)
Solubility in Water:	Negligible
Partition Coefficient (n-octanol/water):	No data
Specific Gravity:	0.68-0.74
Specific Gravity Special Conditions	@ 60°F (15.6°C)
Bulk Density:	5.83
Bulk Density Units	lbs/gal
Percent Volatile:	100%
Evaporation Rate (nBuAc=1):	>1
Flash Point:	< -35°F / -37°C
Test Method:	(Estimate)
LEL%:	1.5
UEL%:	7.6
Autoignition Temperature:	824°F / 471°C

10. STABILITY AND REACTIVITY

Stability: Extremely flammable liquid and vapor. Vapor can cause flash fire.

Conditions to Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Contact with strong oxidizing agents such as chlorine, dichromates, or permanganates can cause fire or explosion.

Hazardous Decomposition Products: Combustion can yield lead fumes, carbon, nitrogen and sulfur oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Chronic Data:

Gasoline - CAS: NONE

Carcinogenicity: Two year inhalation studies of wholly vaporized unleaded gasoline produced increased incidences of kidney tumors in male rats and liver tumors in female mice. Follow-up studies suggest that occurrence of the kidney tumors may be linked to alpha-2-u-globulin nephropathy, and most likely unique to the male rat. Epidemiology data collected from a study of more than 18,000 petroleum marketing and distribution workers showed no increased risk of leukemia, multiple myeloma, or kidney cancer from gasoline exposure. Unleaded gasoline has been identified as a possible carcinogen by IARC. Because solvent extracts of gasoline exhaust particulates caused skin cancer in laboratory animals, IARC has categorized gasoline engine exhaust as a possible human cancer hazard.

Target Organs: A two year inhalation study of wholly vaporized unleaded gasoline produced nephropathy in male rats, characterized by the accumulation of alpha-2-u-globulin in epithelial cells of the proximal tubules, and necrosis and hyperplasia of surrounding cells. Follow-up studies have demonstrated that these changes are unique to the male rat.

Although prolonged exposure to n-hexane, a component of gasoline, has resulted in adverse male reproductive effects in experimental animal studies, no adverse male reproductive effects were found in studies conducted with gasoline.

Developmental: No evidence of developmental toxicity was found in pregnant laboratory animals (rats and mice) exposed to up to 9,000 ppm vapor of unleaded gasoline via inhalation.

Xylenes - CAS: 1330-20-7

Target Organs: A six week inhalation study with xylene produced hearing loss in rats.

Developmental: Both mixed xylenes and the individual isomers produced limited evidence of developmental toxicity in laboratory animals. Inhalation and oral administration of xylene resulted in decreased fetal weight, increased incidences of delayed ossification, skeletal variations and resorptions.

Toluene - CAS: 108-88-3

Target Organs: Epidemiology studies suggest that chronic occupational overexposure to toluene may damage color vision. Subchronic and chronic inhalation studies with toluene produced kidney and liver damage, hearing loss and central nervous system (brain) damage in laboratory animals. Intentional misuse by deliberate inhalation of high concentrations of toluene has been shown to cause liver, kidney, and central nervous system damage, including hearing loss and visual disturbances.

Developmental: Exposure to toluene during pregnancy has demonstrated limited evidence of developmental toxicity in laboratory animals. The effects seen include decreased fetal body weight and increased skeletal variations in both inhalation and oral studies.

Ethyl Benzene - CAS: 100-41-4

Carcinogenicity: Rats and mice exposed to 0, 75, 250, or 750 ppm ethyl benzene in a two year inhalation study demonstrated limited evidence of kidney, liver, and lung cancer. Ethyl benzene has been listed as a possible human carcinogen by IARC. Ethyl benzene has not been listed as a carcinogen by NTP, or OSHA.

Target Organs: In rats and mice exposed to 0, 75, 250, or 750 ppm ethyl benzene in a two year inhalation study there was mild damage to the kidney (tubular hyperplasia), liver (eosinophilic foci, hypertrophy, necrosis), thyroid (hyperplasia) and pituitary (hyperplasia).

n-Hexane - CAS: 110-54-3

Target Organs: Excessive exposure to n-hexane can result in peripheral neuropathies. The initial symptoms are symmetrical sensory numbness and paresthesias of distal portions of the extremities. Motor weakness is typically observed in muscles of the toes and fingers but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. The neurotoxic properties of n-hexane are potentiated by exposure to methyl ethyl ketone and methyl isobutyl ketone.

Prolonged exposure to high concentrations of n-hexane (>1,000 ppm) has resulted in decreased sperm count and degenerative changes in the testes of rats but not those of mice.

Benzene - CAS: 71-43-2

Carcinogenicity: Benzene is an animal carcinogen and is known to produce acute myelogenous leukemia (a form of cancer) in humans. Benzene has been identified as a human carcinogen by NTP, IARC and OSHA.

Target Organs: Prolonged or repeated exposures to benzene vapors has been linked to bone marrow toxicity which can result in blood disorders such as leukopenia, thrombocytopenia, and aplastic anemia. All of these diseases can be fatal.

Developmental: Exposure to benzene during pregnancy demonstrated limited evidence of developmental toxicity in laboratory animals. The effects seen include decreased body weight and increased skeletal variations in rodents. Alterations in hematopoiesis have been observed in the fetuses and offspring of pregnant mice.

Mutagenic Effects: Benzene exposure has resulted in chromosomal aberrations in human lymphocytes and animal bone marrow cells, and DNA damage in mammalian cells in vitro.

Tetraethyl Lead - CAS: 78-00-2

Carcinogenicity: While inorganic lead compounds have caused cancer in laboratory animals, organic lead compounds have not been identified as a carcinogen by NTP, IARC or OSHA. A Toxicity Study Summary for Aviation Gasoline is available upon request.

Acute Data:

Aviation Gasoline:

Dermal LD50 < 2g/kg (Rabbit)

LC50 < 89.67 mg/L (4 hr., Rat)

Oral LD50 < 5g/kg

Gasoline - CAS: NONE

Dermal LD50 = > 5 ml/kg (Rabbit)

LC50 = > 4500 ppm (Rat)

Oral LD50 = 18.75 ml/kg. (Rat)

Xylenes - CAS: 1330-20-7

Dermal LD50 = > 3.16 ml/kg (Rabbit)

LC50 = 5000 ppm/4 hr. (Rat)

Oral LD50 = 4300 mg/kg (Rat)

Toluene - CAS: 108-88-3

Dermal LD50 = 14 g/kg (Rabbit)

LC50 = 8,000 ppm (4-hr., Rat); 49 g/m³ (4-hr., Rat)

Oral LD50 = 2.5 - 7.9 g/kg (Rat)

Ethyl Benzene - CAS: 100-41-4

Dermal LD50 = 17,800 mg/kg (Rabbit)

LC50 = 4000 ppm/4 hr.; 13367 ppm (Rat)

Oral LD50 = 3500 mg/kg (Rat)

1,2,4-Trimethyl Benzene - CAS: 95-63-6

Dermal LD50 = No data available

LC50 = 18 gm/m³/4hr (Rat)

Oral LD50 = 3-6 g/kg (Rat)

n-Hexane - CAS: 110-54-3

Dermal LD50 = > 2,000 mg/kg (Rabbit)

LC50 = > 3,367 ppm (4-hr., Rat)

Oral LD50 = 25,000 g/kg (Rat); 28.7 g/kg (Rat)

Cyclohexane - CAS: 110-82-7

Dermal LD50 = > 180.2 g/kg (Rabbit)

LC50 = 18,500 ppm (Rabbit); 70 g/m³ (2hr-Mammal)

Oral LD50 = 12.7 g/kg (Rat); 29.82 g/kg (Rat); 8.0 mL/kg (Rat); 1.3 g/kg (Mouse); 813 mg/kg (Mouse)

Benzene - CAS: 71-43-2

Dermal LD50 = > 9400 mg/kg (Rabbit), (Guinea Pig)

LC50 = 9980 ppm (Mouse); 10000 ppm/7hr. (Rat)

Oral LD50 = 4700 mg/kg (Mouse); 930 mg/kg (Rat); 5700 mg/kg (Mammal)

Tetraethyl Lead - CAS: 78-00-2

Dermal LD50 = LDLo = 830 mg/kg

LC50 = No data available

Oral LD50 = 14 mg/kg (Rat)

12. ECOLOGICAL INFORMATION

Spilling of gasoline can result in environmental damage. It floats on water and evaporates rapidly from water or soil surfaces. However, spilled gasoline may penetrate soil and could contaminate groundwater. Gasoline is biodegradable but in situations of low oxygen, such as in soil below grade or in groundwater, may persist for many years. It does not readily dissolve in water but will be adsorbed to soils. Gasoline in the environment can be toxic to plants and animals.

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001), and benzene (D018). If the spilled or released material impacts soil, water, or other media, characteristic testing of the contaminated materials may be required prior to their disposal. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Description: Gasoline, 3, UN1203, PG II, RQ (Xylenes/100 lbs., Benzene/10 lbs. and/or Tetraethyl lead/10 lbs.)

Bulk Package/Placard Marking: A Class 3 red-colored "FLAMMABLE" placard with a 1203 panel added or a Class 3 red-colored "GASOLINE" placard on a cargo tank or portable tank being transported via highway.

Non-Bulk Package Labels: Display of a Class 3 red-colored "FLAMMABLE LIQUID" label is required for packages containing less than 1,001 lbs. (454 kg.).

Packaging - References (Exceptions, Non-Bulk, Bulk): 49 CFR 172.102(b)(139), (B33), (B101), & (T8), 173.150, 173.202, & 173.242

Emergency Response Guide: 128

IMDG Shipping Description: Gasoline, 3, UN1203, PG II

ICAO/IATA Shipping Description: Gasoline, UN1203, Division 3, Packing Instruction 305 or 307

15. REGULATORY INFORMATION

U.S. Regulations:

EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:	Yes
Chronic Health:	Yes
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Xylenes.....1330-20-7.....	1-15%
Toluene.....108-88-3.....	1-10 %
Ethyl Benzene.....100-41-4.....	1-5%
1,2,4-Trimethyl Benzene.....95-63-6.....	1-5%
n-Hexane.....110-54-3.....	<4%
Cyclohexane.....110-82-7.....	<3%
Benzene.....71-43-2.....	<0.5%
Tetraethyl Lead.....78-00-2.....	<0.13%

EPA (CERCLA) Reportable Quantity (in pounds):

Xylenes.....1330-20-7.....	100
Toluene.....108-88-3.....	1000
Ethyl Benzene.....100-41-4.....	1000
n-Hexane.....110-54-3.....	5000

Cyclohexane.....110-82-7.....1000
Benzene.....71-43-2.....10
Tetraethyl Lead.....78-00-2.....10

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:
-- None Known --

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Benzene -- Cancer, Developmental and Reproductive Toxicant
Toluene -- Developmental Toxicant
Unleaded Gasoline (wholly vaporized) -- Cancer

Carcinogen Identification:

Unleaded gasoline has been identified as a carcinogen by IARC. For carcinogenicity information on individual components, see Section 11.

TSCA:

All components are listed on the TSCA inventory.

International Regulations:

Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: All components found on DSL.

WHMIS Classification: B2-Flammable Liquid

WHMIS Classification: D2B-Materials causing other toxic effects - Toxic Material

International Inventories:

All components are listed on the following inventories:

Australia (AICS)
Canada (DSL)
China
Europe (EINECS)
Korea (Existing and Evaluated Chemical Substances)
Philippines (PICCS)

One or more components are listed on the following inventories:

Japan (ENCS)

16. OTHER INFORMATION

Issue Date: 10-Dec-2004
Previous Issue Date: 02/13/2003
Product Code: 21223
Reason for revision: Technical contact information changed SEE SECTION 1.
Minor formatting changes
Previous Product Code: 21223, AVGAS100OCTLL
MSDS Code: 001769

Disclaimer of Expressed and implied Warranties:

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