

UNL Regular

Date of Preparation: October 1, 2009

**Section 1 - Chemical Product and Company Identification**

**Product Name:** UNL Regular  
**Chemical Name:** Natural Gasoline  
**Chemical Family:** Petroleum hydrocarbons  
**Chemical Formula:** Mixture  
**Other Designations:** Unleaded Regular Gasoline, Natural Gasoline  
**CAS Number:** 8006-61-9  
**Manufacturer:** Ergon -- West Virginia, Inc., P.O. Box 356, Newell, WV 26050  
**Company Contact:** Will Poe, Phone (601) 630-8319 (Vicksburg, MS)

**EMERGENCY TELEPHONE NUMBERS:**

Ergon -- West Virginia, Inc. (601) 630-8319 (Vicksburg, MS) Normal Business Hours  
 Chemtrec (800) 424-9300 After Business Hours

**Section 2 - Composition / Information on Ingredients**

This product may be regulated, have exposure limits or other information identified as the following: Unleaded Gasoline (wholly vaporized). This product is considered a hazardous product under 29 CFR 1910.1200 (Hazard Communication).

Ingredient Name	CAS Number		% vol	
Gasoline	8006-61-9		95-100	
Benzene	71-43-2		1-5	

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Gasoline	300 ppm; 900 mg/ m <sup>3</sup>	500 ppm; 1500 mg/ m <sup>3</sup>	300 ppm; 890 mg/ m <sup>3</sup>	500 ppm; 1480 mg/ m <sup>3</sup>			
Benzene	10 ppm	50 ppm	10 ppm; 32 mg/ m <sup>3</sup>			1 ppm	

**Section 3 - Hazards Identification**

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

**DANGER! EXTREMELY FLAMMABLE. ASPIRATION (INADVERTENT SUCTION) INTO LUNGS CAN PRODUCE CHEMICAL PNEUMONIA OR EVEN DEATH. CONTAINS BENZENE WHICH MAY CAUSE CANCER OR BE TOXIC TO BLOOD-FORMING ORGANS.**

**HMIS**  
**H** 1  
**F** 3  
**R** 0  
**PPE†**  
 †Sec. 8

Material will readily ignite at normal temperatures. Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Excessive inhalation of this material may cause headache, dizziness and incoordination. Water may be an ineffective extinguishing medium. Foam (preferred), dry chemical, water. Wear full set of protective equipment including chemical goggles and gloves.

Gasoline is either a clear or colored liquid with a strong hydrocarbon odor. Gasoline is a volatile and extremely flammable liquid and may cause flash fires. Keep away from heat, sparks or flame. Gasoline can also contain significant concentrations of benzene, which has been shown to cause cancer or be toxic to blood-forming organs. Never siphon this product by mouth. If swallowed, gasoline may get sucked into the lungs (aspirated) and cause lung damage or even death.

GASOLINE HEALTH & SAFETY WARNING

- EXTREMELY FLAMMABLE, VAPORS MAY EXPLODE
- HARMFUL OR FATAL IF SWALLOWED
- LONG TERM EXPOSURE TO VAPORS HAS CAUSED CANCER IN LABORATORY ANIMALS
- KEEP FACE AWAY FROM NOZZLE WHILE FILLING
- KEEP NOZZLE AWAY FROM EYES AND SKIN
- NEVER SIPHON BY MOUTH
- DON'T OVERFILL TANK

FOR USE AS A MOTOR FUEL ONLY

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**Potential Health Effects/Primary Entry Routes**

**Inhalation:** Exposure to vapor concentrations exceeding 1,000 ppm can cause respiratory irritation, headache, dizziness, nausea and loss of coordination. Higher concentrations may cause loss of consciousness, cardiac sensitization, coma and death resulting from respiratory failure. Intentional overexposure to high concentrations of gasoline vapors (such as gasoline sniffing) can cause nervous system and brain damage, convulsions and sudden death from cardiac arrest.

**Eye:** Eye irritation may result from contact with the liquid or exposure to vapor concentrations above the TLV.

**Skin:** Prolonged or repeated liquid contact can defeat the skin and lead to irritation and/or dermatitis.

**Ingestion:** Ingestion may result in nausea, vomiting, diarrhea and restlessness. Aspiration (inadvertent suction) of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonitis, pulmonary edema/hemorrhage and even death.

**Carcinogenicity:** The International Agency for Research on Cancer (IARC) has determined that there is inadequate evidence for the carcinogenicity of gasoline in humans. IARC determined that limited evidence of carcinogenicity in animals exists. IARCIS overall evaluation of gasoline, in spite of limited carcinogenicity evidence, has resulted in the IARC designation of gasoline as possibly carcinogenic to humans (Group 2B) because gasoline contains benzene. The National Toxicology Program (NTP), OSHA and IARC have determined that there is sufficient evidence for the carcinogenicity of benzene in humans (Group 1A). IARC has determined that there is inadequate evidence for the carcinogenicity of gasoline engine exhaust in humans or animals. However, IARCIS overall evaluation on gasoline engine exhaust, in spite of the absence of carcinogenicity data, has resulted in the IARC designation of gasoline engine exhaust as possibly carcinogenic to humans (Group 2B) because of the presence of certain engine exhaust components.

**Medical Conditions Aggravated by Long-term Exposure (Chronic Effects) :** Pre-existing eye, skin, respiratory, liver and/or kidney disorders may be aggravated by exposure to gasoline.

**Section 4 - First Aid Measures**

**Inhalation:** Remove to fresh air. Call a physician.

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** Remove contaminated clothing. Wash affected area with mild soap and water. Launder contaminated clothing before reuse. Get medical attention if skin disorder develops.

**Ingestion:** If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

**Notes to Physician:** Pulmonary aspiration hazard if swallowed; treat symptomatically.

**Section 5 - Fire-Fighting Measures**

**Flash Point:** - 45 °F

**Flash Point Method:** not available

**Burning Rate:** not available

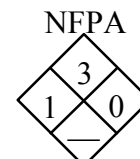
**Autoignition Temperature:** > 500 °F

**Lower Flammable Limit (LFL):** 1.4

**Upper Flammable Limit (UFL):** 7.6

**Flammability Classification:** not available

**Extinguishing Media:** Foam (preferred), dry chemical, water. Water may be an ineffective extinguishing medium. Use water to cool fire-exposed containers and to protect personnel.



**General Fire Hazards:** Extremely flammable liquid; material can ignite readily at normal temperatures. Vapors may form flammable mixtures. Empty containers may retain product residue including flammable or explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Static charge may accumulate and spark or ignite. Toxic fumes, gases or vapors may evolve on burning.

**Hazardous Combustion Products:** carbon monoxide and carbon dioxide.

**Fire-Fighting Equipment/Instructions:** Wear full set of protective equipment including chemical goggles and gloves. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

## Section 6 - Accidental Release Measures

**Containment Procedures:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

**Clean-Up Procedures:** Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Wear appropriate protective equipment and clothing during clean-up. Thoroughly wash the area after a spill or leak clean-up. Do not allow the spilled product to enter public drainage system or open water courses.

**Evacuation Procedures:** Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure.

**Special Instructions:** Remove soiled clothing and laundry before reuse. Avoid skin contact and inhalation of vapors during disposal of spills.

## Section 7 - Handling and Storage

**Procedures for Handling:** Do not breathe gas/fumes/vapor/spray. Use this product with adequate ventilation. Do not get this material in your eyes, on your skin, or on your clothing. Keep this product from heat, sparks, or open flame. Wash thoroughly after handling. Do not reuse the empty container. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

**Recommended Storage Methods:** Keep the container tightly closed and in a cool, well-ventilated place. Do not store this material in open or unlabeled containers. Eliminate all sources of ignition. Store away from strong oxidizers. This material can accumulate static charge which may cause spark and become an ignition source.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines:

A. General Product Information - Follow the recommended exposure limits.

B. Component Exposure Limits

Gasoline (CAS # 8006-61-9)

ACGIH: TLV: 300 ppm; 890 mg/m<sup>3</sup>; STEL: 500 ppm; 1480 mg/m<sup>3</sup>

OSHA: PEL: 300 ppm; 900 mg/m<sup>3</sup>; STEL: 500 ppm; 1500 mg/m<sup>3</sup>

Benzene (CAS # 71-43-2)

ACGIH: TLV: 10 ppm; 32 mg/m<sup>3</sup>; STEL: 500 ppm; 1480 mg/m<sup>3</sup>

OSHA: PEL: 10 ppm (unless specified in 1910.1028)

STEL: 50 ppm (10 min) (unless specified in 1910.1028)

Ceiling: 25 ppm (unless specified in 1910.1028)

NIOSH: STEL: 1 ppm

**Engineering Controls:** Use local exhaust ventilation. Explosion-proof exhaust devices are required.

**Eye / Face Protection:** Wear safety glasses; chemical goggles (if splashing is possible).

**Skin Protection:** Use impervious gloves for prolonged contact. The use of neoprene gloves is recommended.

**Respiratory Protection:** For high concentration of vapors or mists use NIOSH/MSHA approved vapor/mist cartridge respirator.

**General:** Use good industrial hygiene practices.

## Section 9 - Physical and Chemical Properties

**Physical State:** Amber

**Appearance:** Liquid

**Odor:** Petroleum

**Odor Threshold:** not available

**Vapor Pressure:** 300-400 mm Hg

**Vapor Density (Air=1):** 3 - 4

**Specific Gravity (H<sub>2</sub>O=1):** 0.74

**Water Solubility:** insoluble

**Boiling Point:** IBP=140°F, EP=440°F

**Melting Point:** not available

**% Volatile:** 100

**Evaporation Rate:** <1 (butyl acetate = 1)

**pH:** not available

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Hazardous Polymerization:** Hazard polymerization will not occur.

**Chemical Incompatibilities:** This product may react with strong oxidizing agents.

**Conditions to Avoid (Stability):** Avoid excessive heat and all sources of ignition.

**Hazardous Decomposition Products:** Smoke, carbon dioxide and carbon monoxide.

## Section 11- Toxicological Information

### Acute Toxicity / Target Organ Information:

#### A. General Product / Component Information

Benzene can cause blood and blood-producing system disorders. Aspiration of material into the lungs can cause bronchopneumonia or pulmonary edema. Product can affect the central nervous system, kidney, liver and blood-forming system.

#### B. Component LD50 / LC50

Benzene (CAS # 71-43-2)

Inhalation, rat: LC50 = 10,000 ppm 7 hr oral, rat: LD50 = 3306 mg/kg

Skin, mouse: LD50 = 48 mg/kg

**Epidemiology:** Studies have shown that prolonged exposure to the benzene component can cause leukemia and other serious blood disorders and complications to the blood-producing system.

### Carcinogenicity:

A. General Product / Component Information - IARC has found gasoline to be a possible human carcinogen.

#### B. Component Carcinogenicity Listings

Gasoline (CAS # 8006-61-9)

OSHA: Possible Select Carcinogen

IARC: Group 2B - Possibly carcinogenic to humans.

Benzene (CAS # 71-43-2)

ACGIH: (A2) - suspected human carcinogen

OSHA: Select Carcinogen

NIOSH: Y

NTP: Known Carcinogen

IARC: Group 1 - Carcinogenic to humans.

**Teratogenicity / Reproductive Effects:** Animal studies have shown that repeated exposure to benzene can damage the embryo or fetus.

**Neurotoxicity:** Excessive exposure can cause dizziness and central nervous system depression.

**Mutagenicity:** No data available on this product as a whole.

**Other Information:** No information available.

**Section 12 - Ecological Information**

**Ecotoxicity:** No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.  
**Environmental Fate:** No information is available.

**Section 13 - Disposal Considerations**

**U.S. EPA Waste Number & Descriptions:**

- A. General Product Information - User must test waste using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous wastes. As shipped, this product is considered a D001 ignitable waste.
- B. Component Waste Numbers - Benzene (CAS # 71-43-2) is listed as a U019 (Ignitable waste, Toxic waste) and D018 hazardous waste.

**Disposal Instructions:**

Do not allow this material to drain into sewers / water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

**Section 14 - Transport Information**

**Proper Shipping Name:** Gasoline  
**Hazard Class:** 3.1  
**DOT ID No.:** UN1203  
**Packing Group:** II  
**DOT Shipping Label:** Flammable Liquid

**Additional Shipping Information:**  
 Packaging containing more than 10 pounds of benzene must be designated "RQ" in the proper shipping name.  
**International Transportation Regulations:**  
 No additional information.

**Section 15 - Regulatory Information**

**U.S. Federal Regulatory Information:**

- A. General Product Information - All components of this product are listed on the U.S. EPA TSCA Inventory.
- B. Component Information - This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4):  
 Benzene (CAS # 71-43-2, 1 - 5%)  
     SARA 313: form R reporting required for 0.1% de minimus concentration  
     CERCLA: final RQ = 10 pounds (4.54 kg)

**State Regulations:**

- A. General Product Information - Unleaded gasoline requires labeling under California Proposition 65.
- B. Component Information - The following components appear on one or more of the following state hazardous substance lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Gasoline	8006-61-9	Y	Y	Y	Y	Y	N
Benzene	71-43-2	Y	Y	Y	Y	Y	Y

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

**WARNING!** This product contains a chemical known to the state of California to cause cancer.

**Other Regulations:**

- A. General Product Information - All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.
- B. Component Information

**CANADA**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	%	Minimum Concentration
Gasoline	8006-61-9	95 - 100	1% item 793 (802)
Benzene	71-43-2	1 - 5	0.1% item 153 (277)

**Section 16 - Other Information****Key / Legend**

N = no; Y = yes; ppm - parts per million; mg/m<sup>3</sup> = milligrams per cubic meter of air; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NIOSH = National Institute of Occupational Safety and Health; NTP = National Toxicology Program; IARC = International Agency for Research on Cancer.

**Prepared By:** Will Poe      **Phone:** (601) 630-8319

<b>Supersedes MSDS Dated:</b>	June 1, 2007	Changed date
	June 1, 2005	Changed date
	December 26, 2003	Changed date
	January 1, 2001	Changed date
	July 19, 1997	Changed date, contact, and added additional hazards.

**Disclaimer:** Ergon -- West Virginia, Inc. believes this information is accurate but not all-inclusive in all circumstances. It is the responsibility of the user to determine suitability of the material for their purposes. No warranty, expressed or implied, is given.