

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

El Paso Corporation
and its subsidiaries
1001 Louisiana Street
Houston, Texas 77002

Information: (713) 420-2600
CHEMTREC: (800) 424-9300

Product Name: Super Unleaded Gasoline Last Revision: 08/02/01
MSDS Number: A0005.msds Date Prepared: 10/05/85

Synonyms: Conventional Super Unleaded Gasoline,
Unleaded Premium, Petrol, Motor Spirits, NL
93 Oct. GR 7.8 RVP

Product Description: A volatile blend of paraffinic, olefinic,
and aromatic hydrocarbons for automotive
fuel.

2. COMPOSITION & INFORMATION ON INGREDIENTS

| Product | CAS No. | Wt% | Occupational Exposure Limits* | | | Units |
|---------------------------------|-----------|--------|-------------------------------|-------|-----------------------------------|-------|
| | | | OSHA | ACGIH | Other | |
| | | | PEL | TLV | | |
| Super Unleaded Gasoline Mixture | | 100 | 300** | 300 | 500 STEL | ppm |
| Components | | | | | | |
| Benzene | 71-43-2 | 0-5.0 | 1 | 0.5 | 2.5 (ACGIH) STEL 5 (OSHA) STEL | ppm |
| Toluene | 108-88-3 | 0-25.0 | 100 | 100 | 150 STEL | ppm |
| Xylene | 1330-20-7 | 0-25.0 | 100 | 100 | 150 STEL | ppm |
| Ethylbenzene | 100-41-4 | 0-5.0 | 100 | 100 | 125 STEL | ppm |
| n-Hexane | 110-54-3 | < 3.0 | 50 | 50 | | ppm |
| Hexane (other isomers) | N.A. | < 6.5 | 500 | 500 | 1000 STEL | ppm |
| 1,2,4-Trimethyl Benzene | 95-63-6 | 0-5.0 | 25** | 25 | | ppm |
| Butane | 106-97-8 | <9.0 | 800** | 800 | | ppm |
| Pentane | 109-66-0 | <2.0 | 600 | 600 | 750 STEL | ppm |
| t-Butyl Alcohol | 75-65-0 | 0-10.0 | 100 | 100 | | ppm |
| Methyl t-butyl Ether (MTBE) | 1634-04-4 | 0-15.0 | N/A | 40 | | ppm |

Key: * = 8-Hr. TWA unless otherwise specified
N/A = Not Available
STEL = Short Term Exposure Limit; 15 minutes
** = Vacated 1989 PEL

3. HAZARD IDENTIFICATION

Note: This product has not been tested by El Paso Corporation to determine its specific health hazards. Therefore, the

information provided in this section includes health hazard information on the product components.

| Carcinogenicity: | NTP | IARC Monographs | OSHA Regulated |
|-------------------------|------------|------------------------|-----------------------|
| Super Unleaded Gasoline | No | Yes (2B) | No |
| Benzene | Yes | Yes | Yes |

"2B*" = This product mixture and gasoline engine exhaust have been classified by IARC as "possibly carcinogenic to humans".

Potential Health Effects From Overexposure:

Acute Effects:

- Eyes: Slight to moderate eye irritation.
- Skin: Moderately irritating; causing redness, drying of the skin.
- Inhalation: Irritating to mucous membrane and respiratory tract. Can act as a simple asphyxiant. Overexposure to vapors may lead to headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, coma and respiratory arrest.
- Ingestion: May cause stomach irritation, gastritis, headache, nausea, drowsiness, loss of consciousness, convulsions, cyanosis, pneumonitis, pulmonary edema, central nervous system depression and capillary hemorrhaging of the lung and internal organs. Aspiration hazard if vomiting occurs.

Chronic Effects:

Skin and eye irritation. May affect the respiratory and central nervous system. Recent studies indicate kidney damage and kidney cancer in rats, and liver cancer in mice.

Additional Medical and Toxicological Information:

Contact with full strength or even dilute formulations of this product or exposure above and/or below the PEL or TLV may aggravate pre-existing dermatitis or respiratory disorders in certain individuals. There is sufficient evidence for the carcinogenicity of benzene in humans. Benzene may cause degeneration in blood forming organs leading to anemia which may further degrade to leukemia. Isobutane and n-butane have been shown to cause cardiac sensitization in laboratory test animals. N-hexane has been shown to cause polyneuropathy in laboratory tests.

4. FIRST AID MEASURES

- Eye Contact:** Flush thoroughly with water for at least 15 minutes, including under eyelids. Contact a physician immediately, preferably an ophthalmologist. Speed and thoroughness in rinsing eyes are important to avoid permanent injury.
- Skin Contact:** Remove contaminated clothing and shoes. Wash affected areas with soap and flush with large amounts of water for 15 to 20 minutes. Get immediate medical attention.
- Inhalation:** Remove to fresh air. If breathing has stopped, apply artificial respiration. Get immediate medical attention.
- Ingestion:** Do not induce vomiting. If spontaneous vomiting occurs hold the victim's head lower than their hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Flash Point: -45°F (TCC)

Flammable Limits in Air, % by Volume:

Lower: 1.4

Upper: 7.6

Autoignition Temperature: 495-850°F

Extinguishing Media: Dry chemical, foam, or carbon dioxide.

NEPA Hazard Ratings: Health: 1 Flammability: 3 Reactivity: 0

General Hazard:

Flowing gasoline can be ignited by self-generated static electricity: containers should be grounded and bonded. Runoff to sewer may create fire or explosion hazard well downstream from the source.

Fire Fighting Instructions:

Use a smothering technique for extinguishing fire. Do not use a forced water stream directly on gasoline fires as this will tend to scatter the fire. Use water spray to cool fire-exposed containers. Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE

Remove sources of heat or ignition including internal combustion engines and power tools. Clean up spill, but do not flush to sewer or surface water. Ventilate area and avoid breathing vapors or mists.

7. HANDLING & STORAGE

Store in tightly closed containers in a dry cool place, away from incompatible materials or source of heat and ignition. Ground and bond all transfer and storage equipment to prevent static sparks and equip with self-closing valves, pressure vacuum bungs and flame arrestors. Empty containers may contain residue (liquid and/or vapor) and can 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.

Gasoline is to be used as motor fuel only. Never use as a cleaning solvent or degreaser. Use explosion-proof electrical equipment. No smoking should be allowed in area of use.

8. EXPOSURE CONTROL, PERSONAL PROTECTION

Eye Protection: Remove contact lenses and wear chemical safety glasses or goggles where contact with liquid or mist may occur.

Skin Protection: Wear impervious gloves when contact with skin may occur. Launder contaminated clothing prior to reuse. Wash with soap and water before eating, drinking or smoking.

Inhalation: Use approved respiratory protective equipment for cleaning large spills or entry into tanks, vessels or other confined spaces.

Ventilation: Provide adequate general and local ventilation: (1) to maintain airborne chemical concentrations below applicable exposure limits, (2) to prevent accumulation of flammable vapors and formation of explosive atmospheres, and (3) to prevent formation of oxygen deficient atmospheres, especially in confined spaces. [Note: this product may release gases or vapors that can displace oxygen in enclosed areas.]

9. PHYSICAL & CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|--------------|------------------------|----------------|
| Boiling Point @760 mmHg: | 80-430°F | Melting Point: | Variable |
| Vapor Pressure mmHg @100°F: | 325-525 | Vapor Density (Air=1): | 3-4 |
| % Solubility in H ₂ O: | Negligible | pH: | N/A |
| Specific Gravity 60/60F: | 0.7-0.77 | Evaporation Rate | N/A |
| % Volatile by Volume: | 100 | (Butyl Acetate=1): | |
| Viscosity (method, temp.): | 1.4 cST@40°C | Odor: | Aromatic odor |
| Appearance: | Bronze fluid | Reid VP: | 6.4 - 13.0 psi |

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Polymerization: Will not occur.

Conditions to Avoid/Incompatibilities: Strong oxidizing agents, heat, sparks, flame, build-up of static electricity, halogens, strong acids and alkalis.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL INFORMATION

Dispose through a licensed waste disposal company. Follow applicable federal, state and local disposal regulations.

14. TRANSPORT INFORMATION

Gasoline, 3, UN 1203, Packing Group II

15. REGULATORY INFORMATION

EPA SARA TITLE III

Section 302 EPCRA Extremely Hazardous Substances (EHS)

| Product Component | CAS No. | Wt% | RQ, lb | TPQ, lb |
|-------------------|---------|-----|--------|---------|
| None | | | | |

Section 304 CERCLA Hazardous Substances

| Product Component | CAS No. | Wt% | RQ, lb |
|------------------------|-----------|--------|--------|
| Benzene | 71-43-2 | 0-5.0 | 10 |
| Toluene | 108-88-3 | 0-25.0 | 1000 |
| Xylene | 1330-20-7 | 0-25.0 | 100 |
| Ethylbenzene | 100-41-4 | 0-5.0 | 1000 |
| n-Hexane | 110-54-3 | <3.0 | 5000 |
| Hexane (other isomers) | N.A. | < 6.5 | 5000 |
| Methyl t-butyl Ether | 1634-04-4 | 0-15.0 | 1000 |

Section 311/312 Hazard Categorization

| Acute: | Chronic: | Fire: | Pressure: | Reactive: |
|--------|----------|-------|-----------|-----------|
| X | X | X | | |

Section 313 EPCRA Toxic Substances

| Ingredient | CAS No. | Wt. % |
|------------|---------|-------|
|------------|---------|-------|

| | | |
|-------------------------|-----------|--------|
| Benzene | 71-43-2 | 0-5.0 |
| Toluene | 108-88-3 | 0-25.0 |
| Xylene | 1330-20-7 | 0-25.0 |
| Ethylbenzene | 100-41-4 | 0-5.0 |
| t-Butyl Alcohol | 75-65-0 | 0-10.0 |
| Methyl Tert-Butyl Ether | 1634-04-4 | 0-15 |

Key: RQ = Reportable Quantity
 TPQ = Threshold Planning Quantity of EHS

CALIFORNIA PROPOSITION 65 WARNING

Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in crude oil and petroleum products. Although it is possible to sufficiently refine a crude oil or its end products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling crude oil and petroleum products.

16. OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THIS COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR THEIR OWN PARTICULAR USE.

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