

Material Safety Data Sheet (MSDS) – Gasoline

1. Product and Company Identification

- **Product Name:** Gasoline (Petrol)
 - **Synonyms:** Motor fuel, petrol
 - **Use:** Fuel for internal combustion engines
 - **Manufacturer/Supplier:** ATDM Co.
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2. Hazard Identification

- **Classification (GHS):**
 - Flammable Liquid – Category 1
 - Carcinogenicity – Category 2
 - Aspiration hazard – Category 1
 - Specific target organ toxicity – Category 3
 - **Label Elements:**
 - **Signal Word:** *Danger*
 - **Hazard Statements:**
 - Highly flammable liquid and vapor
 - May be fatal if swallowed and enters airways
 - Suspected of causing cancer
 - May cause drowsiness or dizziness
 - **Precautionary Statements:**
 - Keep away from heat/sparks/open flames/hot surfaces
 - Do not breathe vapors
 - Wear protective gloves/eye protection
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3. Composition/Information on Ingredients

Component	CAS Number	Concentration
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Gasoline	86290-81-5	100%
Benzene	71-43-2	<1%
Toluene	108-88-3	1-15%
Xylene	1330-20-7	1-10%

4. First Aid Measures

- **Inhalation:** Remove person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice.
- **Ingestion:** Do **not** induce vomiting. Seek immediate medical help.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, CO₂
- **Unsuitable Media:** Water jet
- **Special Hazards:** Vapors may form explosive mixtures with air
- **Protective Equipment:** Full protective gear and self-contained breathing apparatus

6. Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources; ventilate area
 - **Environmental Precautions:** Prevent entry into drains and waterways
 - **Cleanup Methods:** Use inert absorbent material; dispose of properly
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7. Handling and Storage

- **Handling:** Use only in well-ventilated areas; avoid inhalation or contact
 - **Storage:** Store in a cool, well-ventilated area away from incompatible materials
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8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits (OEL):**
 - Benzene: 0.5 ppm (TWA)
 - Toluene: 20 ppm (TWA)
 - **PPE:** Gloves, safety goggles, and vapor-resistant respirators
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9. Physical and Chemical Properties

- **Appearance:** Clear to amber liquid
 - **Odor:** Characteristic petroleum odor
 - **Flash Point:** ~ -40°C
 - **Boiling Point:** 27–225°C
 - **Vapor Pressure:** High
 - **Solubility:** Insoluble in water
 - **Density:** ~0.71-0.77 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Incompatible Materials:** Strong oxidizers
 - **Hazardous Decomposition:** CO, CO₂, hydrocarbons
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11. Toxicological Information

- **Acute Effects:** Headache, dizziness, nausea, respiratory irritation
 - **Chronic Effects:** Possible carcinogenicity (benzene), liver and kidney damage
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12. Ecological Information

- **Toxic to aquatic life** with long-lasting effects
 - Avoid release into environment
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13. Disposal Considerations

- Dispose of in accordance with local, regional, national, and international regulations
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14. Transport Information

- **UN Number:** UN1203
 - **Proper Shipping Name:** Gasoline
 - **Hazard Class:** 3
 - **Packing Group:** II
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15. Regulatory Information

- Complies with OSHA Hazard Communication Standard
 - Contains substances listed under TSCA and REACH
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