



## Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System  
Conforms to The United Nations Regulation Globally Harmonized System  
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe  
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Conforms to the Australian Preparation of Safety Data Sheets for Hazardous Chemicals under section 274 of the Work Health and Safety Act

### Section 1 - Chemical Product and Company Identification

1.1 Product Name: **MS-109e**

1.2 VP Racing Fuels, Inc., 7124 Richter Road, Elmhendorf, TX 78112, 210.635.7744

1.3 Recommended Use: Racing Fuel

1.4 **RESTRICTIONS on USE** THIS FUEL IS FOR RACING VEHICLE USE ONLY!

NOT LEGAL FOR STREET DRIVEN MOTOR VEHICLE

1.5 Emergency Response Number: **CHEMTREC 800-424-9300**

International Emergency Telephone Number: **+1-703-527-3887**

1.6 See Section 16.3 for CHEMTREC in Country Emergency Numbers

### Section 2 - Hazards Identification

#### 2.1 GHS HAZARD

##### Hazard Classes

##### Hazard Categories

Highly Flammable liquid/vapor

Category 2

Specific Target Organs toxicity single exposure

Category 3

Specific Target Organs toxicity repeated exposure

Category 1

Eye Irritation

Category 2B

Skin Irritation

Category 2

Acute Toxicity (Oral)

Category 4

Mutagenicity

Category 1B

Carcinogen

Category 2

Reproductive Toxicity

Category 2

Aspiration Hazard

Category 1

Toxic to Aquatic Life long Lasting Effects

Category 2

2.2 Signal Word: **Danger**

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### 2.3 Pictograms:

Flame    Health Hazard    Irritant    Aquatic Hazard

### 2.4 Hazard Statements

#### PHYSICAL HAZARDS:

H225: Highly flammable liquid and vapor

#### HEALTH HAZARDS:

H302: Harmful if swallowed  
H304: May be fatal if swallowed and enter the airway  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H340: May cause genetic defects  
H350: May cause cancer  
H361: Suspected of damaging fertility or the unborn child  
H336: May cause drowsiness or dizziness  
H370: Causes damage to organs

#### ENVIRONMENTAL HAZARDS:

H411: Toxic to aquatic life with long lasting effects

#### PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children  
P202: Do not handle until all safety precautions have been read and understood  
P210: Keep away from sparks and open flames- No smoking  
P260: Do not breathe vapors  
P280: Wear protective gloves, clothing and eye protection

#### RESPONSE STATEMENTS:

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at **800-222-1222**. OUT SIDE USA Immediately call poison center or doctor. **DO NOT** induce vomiting  
P303+P361+353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water  
P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing  
P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes  
P306+P361: IF ON CLOTHING, Take off contaminated clothing  
P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire  
P376: Stop leaks if safe to do so. See section 6 for proper clean up

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### STORAGE STATEMENTS:

**P403: Keep Cool Store in a well-ventilated place**

### DISPOSAL STATEMENTS:

**P501: Dispose of content and/or container in accordance with local, regional, national or international regulations**

**2.5** Hazards not otherwise classified (HNOC) or not covered by GHS Repeated exposure may cause skin dryness or cracking.

## Section 3 - Composition / Information on Ingredients

### 3.1

| CAS#    | EC#       | Chemical Names   | Percent   | Other Identifiers |
|---------|-----------|--|-----------|-------------------|
| N/A     | N/A       | Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20 | 85 - 90 % | None              |
| 64-17-5 | 200-578-6 | 1-Hydroxyethane  | 10 - 15 % | Methyl carbinol   |
| 67-56-1 | 200-659-6 | Carbinol   | 10 - 15 % | Hydroxymethane    |

### 3.2 Blend Contains

| Chemical Names      | CAS#       | EC#       |
|---------------------|------------|-----------|
| Mesitylene          | 108-67-8   | 203-604-4 |
| Phenylmethane       | 108-88-3   | 203-625-9 |
| 2-Methylbutane      | 78-78-4    | 201-142-8 |
| Alkylate Full Range | 64741-64-6 | 265-066-7 |

**3.3 Trade Secret Provision and Chemical Concentration Disclosure:** In accordance with OSHA and GHS Regulations we have withheld specific percentages of the chemicals in this mixture. The chemical concentrations have been disclosed as a range and are applicable to the hazards as identified in this Safety Data Sheet

## Section 4 - First Aid Measures

**4.1 Eye:** Contact with the eyes can cause serious irritation. Symptoms may include discomfort or pain and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**4.2 Skin:** Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**4.3 Ingestion:** Liquid ingestion can cause inebriation, headache, gastrointestinal pain, nausea, and vomiting leading to central nervous system depression. Aspiration of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonia, pulmonary edema and even death.

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**Ingestion:** Do NOT induce vomiting. Get medical aid immediately.

**4.4 Inhalation:** Prolonged breathing of high vapor concentrations can produce headache, dizziness, nausea, and impaired vision. Excessive overexposure can cause central nervous system depression, loss of consciousness, liver damage and death resulting from respiratory failure.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and **IF TRAINED**, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

**4.5 After first aid, get appropriate paramedic, or community medical support.** The severity of outcome following ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure.

**4.6 Note to Physicians:** If you determine that a medical emergency exists and the specific chemical identity is necessary for emergency or first-aid treatment we will immediately disclose the specific chemical identity. Call CHEMTREC 800-424-9300 or 703-527-3887. We will require a written statement of need and confidentiality agreement, in accordance with OSHA's Trade Secret Regulations as soon as circumstances permit. In non-emergency situations, we will upon written request disclose a specific chemical identity

### Section 5 - Fire-Fighting Measures

#### 5.1 General Fire Hazards

Use water to cool containers exposed to fire

#### 5.2 Hazardous Combustion Products

Avoid fumes of burning product.

#### 5.3 Extinguishing Media

Carbon dioxide, dry chemical, foam

#### 5.4 Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

### Section 6 - Accidental Release Measures

**6.1 Spill /Leak Procedures:** Ventilate area highly flammable. Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition away from the spill.

**6.2 Spills:** Avoid direct contact with material. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers or waterways. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth and place in a container for disposal.

### Section 7 - Handling and Storage

**7.1 Handling Precautions:** Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid ingestion and contact with eyes, skin or clothing. Keep container tightly closed. Avoid inhalation.

**7.2 Storage Requirements:** Store in a tightly closed container in a cool, dry and well-ventilated area.



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## Section 8 - Exposure Controls / Personal Protection

### 8.1

| Chemical Names  | ACGIH- TLV   | OSHA - PEL   |
|---|--------------|--------------|
| Blend of Aliphatic and Aromatic Hydrocarbons<br>C-2 to C-20 | 300 ppm TWA  | *300 ppm TWA |
| 1-Hydroxyethane   | 1000 ppm TWA | 1000 ppm TWA |
| Carbinol  | 200ppm TWA   | *250 ppm TWA |

### 8.2 STEL = Short-term Exposure Limit.

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

**NOTE: TWA Means** "TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded. \*Listed on the OSHA Z1 or Z2 Table

**8.3 Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation are preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**8.4 Contaminated Equipment:** Separate contaminated work clothes from street clothes and launder before reuse. Remove this material from your shoes and clean personal protective equipment.

### 8.5 Personal protective equipment

#### 8.5.1 Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 8.5.2 Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the **ANSI/ISEA 105-2011** or European EN374 Standard.

Full contact: Nitrile rubber

Splash contact: Nitrile rubber

#### 8.5.3 Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 8.5.4 Skin and body protection

Impervious clothing, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### 8.6 Protective Clothing Pictograms



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### Section 9 - Physical and Chemical Properties

#### 9.1

**Physical State:** Liquid

**Appearance:** Yellow

**Odor:** Aromatic Hydrocarbon

**Vapor Pressure:** 45 mmHg@21°C

**Vapor Density (Air=1):** 1.6

**Specific Gravity (H<sub>2</sub>O=1,):** Not Available

**pH:** N/A

**Water Solubility:** Insoluble

**Flash Point:** 40°F, 4.4 °C close cup

**Boiling Point:** 231 °F, 110 °C

**Freezing/Melting Point:** : Not Available

**Viscosity:** Not Available

**Auto ignition Temperature:** Not Available

**LEL:** 1%

**UEL:** 7%

### Section 10 - Stability and Reactivity

**10.1 Stability:** Stable under ordinary conditions of use and storage

**10.2 Polymerization:** Hazardous polymerization has not been reported

**10.3 Chemical Incompatibilities:** Strong oxidizing agents

**10.4 Hazardous Decomposition Products:** Combustion produces carbon monoxide and carbon dioxide

**10.5 Conditions to Avoid:** Avoid heat, sparks open flames and other ignition sources

### Section 11- Toxicological Information

| 11.1 Product Name  | Results   | Species | Dose       | Exposure    |
|--|-----------|---------|------------|-------------|
| Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20 | Oral LD50 | Rat     | 2000 mg/kg | None Listed |
| 1-Hydroxyethane  | Oral LD50 | Rat     | 7060 mg/kg | 4 hours     |
| Carbinol   | Oral LD50 | Rat     | 2131 mg/kg | None Listed |

**11.2 Route of Entry:** Inhalation, Ingestion, Absorption, Skin and/or Eye Contact

**11.3 Aspiration Hazard:** May be fatal if swallowed and enters airways

**11.4 Acute Toxicity:** Harmful if swallowed. OECD Guideline 401 Tests results found in the European Chemical Agency Data Base shows that components of this product to be Harmful Oral Toxicity.

**11.5 Mutagenicity:** OECD Guideline 476 Tests results found in the European Chemical Agency Data Base show components of this product to cause genetic defects.

**11.6 Skin Corrosion/Irritation:** Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

**11.7 Serious Eye Damage/Irritation:** Causes serious eye irritation.

**11.8 Specific Target Organ Toxicity:** May cause drowsiness and dizziness.

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**11.9 Reproductive toxicity:** OECD Guideline 421 Tests results found in the European Chemical Agency Data Base show components of this product to cause damage to fertility or the unborn child.

**11.10 Target Organ Toxicity:** Contains material which may cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

**11.11 Signs and Symptoms:** Contains material which may cause damage to the following organs: Eyes, Kidney, Liver, Heart, Central nervous system. Effects due to ingestion may include: Headache, Dizziness, Drowsiness, Metabolic Acidosis, Coma, Seizures. Symptoms may be delayed.

**11.10 Carcinogenicity:** OECD Guideline 453 Tests results found in the European Chemical Agency Data Base shows that components in this product to cause cancer.

| Chemical Name  | IARC                            | ACGIH   | NTP        | OSHA       |
|--|---------------------------------|---|------------|------------|
| Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20 | Possibly carcinogenic to humans | Known carcinogenic to humans                      | Not listed | Not listed |
| 1-Hydroxyethane  |                                 | Confirmed animal with unknown relevance to humans | Not listed | Not listed |
| Carbinol   | Not listed                      | Confirmed Human Carcinogen                        | Not listed | Not listed |

## Section 12 - Ecological Information

### 12.1

| Product Name   | Results   | Species | Exposure |
|--|---|---------|----------|
| Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20 | Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the environment |         |          |
| 1-Hydroxyethane  | LC50 8,140 mg/l   | Fish    | 48 hours |
| 1-Hydroxyethane  | LC50 14,221 mg/l  | Daphnia | 48 hours |
| Carbinol   | LC50 29.4 mg/L  | Fish    | 96 hours |
| Carbinol   | LC50 22,200 mg/L  | Daphnia | 48 hours |

**Toxicity:** OECD Guideline 204 Test results found in the European Chemical Agency Data Base show components of this product to cause long-term toxicity to fish.

**12.2 Mobility:** Floats on water

**12.3 Persistence/degradability:** No date available on the mixture

**12.4 Bioaccumulation:** No date available on the mixture

**12.5 Other adverse effects:** No date available on the mixture

## Section 13 - Disposal Considerations

**13.1 Disposal: DO NOT REUSE EMPTY CONTAINER!** Container should be completely emptied prior to discard. Container with residues should be considered to be hazardous wastes. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

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### Section 14 - Transport Information

#### 14.1 US Transport Information



**ID No.:** UN 3475

**Shipping Name:** Ethanol and petrol mixture with more than 10% ethanol

**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Placard:** Flammable

**Marine Pollutant:** Alkylate Full Range

**Marking:** Marine Pollutant when shipping ground greater than 119 gallons single container or any quantity by water

**Placard:** Flammable

#### 14.2 TDG Canadian Transport Information



**ID No.:** UN 3475

**Shipping Name:** Ethanol and petrol mixture with more than 10% ethanol

**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Marine Pollutant:** Alkylate Full Range

**Marking:** MARINE POLLUTANT not regulated if shipped by road or rail

**Placard:** Flammable

#### 14.3 IMDG Transport Information



**ID No.:** UN 3475

**Shipping Name:** ETHANOL AND PETROL MIXTURE with more than 10% ethanol

**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Flash Point:** (4.4C c.c.)

**EmS Number:** F-E, S-E

**Label:** Flammable

**Marking:** Marine Pollutant, Alkylate Full Range

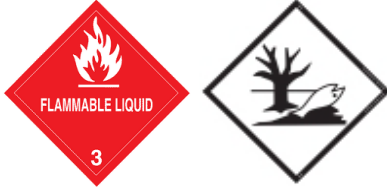
**Placard:** Flammable



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### 14.4 ADR/RID Transport Information



**ID No.:** UN 3475

**Shipping Name:** Ethanol and petrol mixture with more than 10% ethanol

**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Marking:** Marine Pollutant Alkylate Full Range

**Placard:** Flammable

**Classification Code:** F1

### 14.5 Australian Dangerous Goods Transport Information



**ID No.:** UN 3475

**Shipping Name:** Ethanol and petrol mixture with more than 10% ethanol

**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Marking:** Marine Pollutant Alkylate Full Range

**Marking:** The marine pollutant mark is only applicable for packages containing more than 5 liter for liquids

**Placard:** Flammable

## Section 15 - Regulatory Information

### 15.1 US Regulations

**US. Toxic Substances Control Act:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**CERCLA Hazardous Substances and corresponding RQs:** Phenylmethane 1000 lbs, Carbinol 5000lbs.

**SARA Community Right-to-Know Program:** 1-Hydroxyethane, Phenylmethane

**Clean Water Act:** 1-Hydroxyethane

**Clean Air Act:** 2-Methylbutane

**OSHA:** All ingredients are regulated by 1910.1200

### State Regulations

**California prop. 65:** Phenylmethane Reproductive, Carbinol Cancer

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### Chemicals on the following State Right to Know Lists:

**Massachusetts:** All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements

**New Jersey** All components of this product are on the New Jersey inventory or are exempt from Inventory requirements

**Pennsylvania:** All components of this product) are on the Pennsylvania Inventory or are exempt from Inventory requirements.

### 15.2 Canadian Regulation:

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

### 15.3 Europe Regulations

All substances contained in this product are listed on the EU directives or are not required to be listed.

### International Regulations:

**Australian Inventory of Chemical Substance:** All components of this product are on the Inventory or are exempt from Inventory requirements.

**National Existing Chemical Inventory in Taiwan:** All components of this product are on the Inventory or are exempt from Inventory requirements.

**Philippine Inventory of Chemicals and Chemical Substances** All components of this product are on the Inventory or are exempt from Inventory requirements.

**China Existing Chemical Inventory:** All components of this product are on the Inventory or are exempt from Inventory requirements.

## Section 16 - Other Information

**16.1 Disclaimer:** The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

**16.2 References:** CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Data Base and MSDS and SDS of chemicals in this mixture.

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### 16.3 CHEMTREC In country emergency dial numbers:

Australia (Sydney) + (61)-290372994  
China 4001-204937 must be call within China  
Germany 0800-181-7059 must be call within Germany  
Germany (Frankfurt) + (49)-6964350840  
Russia 8-800-100-6346 Must be call within Russia

### 16.4 SDS Preparation Date 07/08/2015

**SDS Previous issue Date:** None

Prepared by SJC Compliance Education, Inc

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