



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
The Workplace Hazardous Materials Information System (WHMIS 2015)
Conforms to Regulation (EU) No 453/2010

Mexican Official Standard, NOM-018-STPS-2015, Harmonized System for the Identification and Communication of Hazards and Risks of Hazardous Chemicals in the Workplace

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: **M1**

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 CHEMTRC in Country Emergency Numbers

Section 2 - Hazards Identification

2.1 GHS HAZARD

Hazard Classes

Highly Flammable liquid/vapor
Specific Target Organ Toxicity single exposure
Acute Toxicity (Oral)
Acute Toxicity (Inhalation)
Acute Toxicity (Dermal)

Hazard Categories

Category 2
Category 1
Category 3
Category 3
Category 3

2.2 Signal Word: **Danger**



2.3 Pictograms:

Flame

Health hazard

Toxic

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2.4 Hazard Statements

PHYSICAL HAZARDS:

H225: Highly flammable liquid and vapor

HEALTH HAZARDS:

H301 + H311: Toxic if swallowed or in contact with skin

H331: Toxic if inhaled

H370: Causes damage to organs

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

P223: Keep container tightly closed

P240: Ground or bond container and receiving equipment

P241: Use explosion-proof equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261: Avoid breathing vapors

P264: Wash skin and hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in well ventilated area

P280: Wear protective gloves, clothing, eye and face protection

RESPONSE STATEMENTS:

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at **800-222-1222.**

OUTSIDE USA Immediately call poison center or doctor. **DO NOT** induce vomiting

P304+P331+P340: IF INHALED. Remove to fresh air and keep comfortable for breathing. USA Immediately call the National POISON CENTER at **800-222-1222.**

OUTSIDE USA Immediately call poison center or doctor.

P302+P312+352: IF ON SKIN wash with plenty of water. Call the National POISON CENTER at **800-222-1222.** OUTSIDE USA if you feel unwell

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P308+P311: If exposed or concerned call the National POISON CENTER at **800-222-1222**. **OUTSIDE USA** Immediately call poison center or doctor.

P330: Rinse mouth

P362+P364: IF ON CLOTHING, take off contaminated clothing and wash it before reuse

P321: Specific treatment see first aid on this label

P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire

STORAGE STATEMENTS:

P403+P405: Store in a well-ventilated place, store locked up

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
67-56-1	200-659-6	Methanol	100%	Methyl Alcohol

Section 4 - First Aid Measures

4.1 Eye: Contact with the eyes can cause 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 skin and can lead to irritation.

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.

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

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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 an exposure may be more related to the time between the exposure and treatment, rather than the amount of the exposure. Therefore, there is a need for rapid treatment of any exposure.

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, and 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: Keep away from ignition sources such as heat, sparks and open flames NO SMOKING Take precautionary measures against static discharge. Non sparking tools should be used. Wear protective gloves, clothing and eye protection. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment. 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.

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

7.3 Chemical Incompatibilities: Strong oxidizing agents and strong reducing agents.

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Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV 2017	OSHA – PEL2017
Methanol	200ppm TWA	*200 ppm TWA

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 Table

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

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

8.4 Personal protective equipment

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).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Full contact: Butyl-rubber

Splash contact: Nitrile rubber

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).

Skin and body protection

Complete suit protecting against chemicals, 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

8.5 Protective Clothing Pictograms



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Section 9 - Physical and Chemical Properties

9.1

Physical State: Liquid

Appearance: Clear

Odor: Aromatic Pungent

Vapor Pressure: Not Available

Vapor Density (Air=1): 1.1

Specific Gravity (H₂O=1,): 0.75

Odor Threshold: Not Available

Flammability (solid, gas): Not applicable.

Evaporation rate: Not Available

Partition coefficient octanol/water: log Pow -0.77

Water Solubility: Completely miscible

Flash Point: 49.5°F (9.7°C)

Boiling Point/ Range: 148.5°F (64.7°C)

Lower Explosive Limits (vol % in air): 6%

Upper Explosive Limits (vol % in air): 36%

Viscosity: Kinematic Not Available

Auto ignition Temperature: Not Available

Decomposition temperature: Not Available

pH: None

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
Methanol	Oral LDLO	Human	143mg/kg	None Listed
Methanol	Oral LD50	Rat	2131 mg/kg	None Listed

11.1.1 OECD Guideline 401 Tests results found in the European Chemical Agency Data Base shows that components of this product to be Acute Oral Toxicity.

11.1.2 OECD Guideline 403 Tests results found in the European Chemical Agency Data Base shows that components of this product to be Acute Oral Inhalation.

11.1.3 OECD Guideline 402 Tests results found in the European Chemical Agency Data Base shows that components of this product to Acute Dermal Toxicity

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

11.3 Aspiration Hazard: European Chemical Agency Data Base shows that no components of this product may be fatal if swallowed and enters airways.

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11.4 Mutagenicity: OECD Guideline 476 Tests results found in the European Chemical Agency Data Base show no components of this product to cause genetic defects

11.5 Skin Corrosion/Irritation: OECD Guideline 404 Tests results found in the European Chemical Agency Data Base shows that no components of this product to cause skin irritation. Repeated exposure may cause skin dryness or cracking.

11.6 Serious Eye Damage/Irritation: OECD Guideline 405 Tests results found in the European Chemical Agency Data Base shows that no components of this product to cause serious eye irritation.

11.8 Reproductive toxicity: OECD Guideline 421 Tests results found in the European Chemical Agency Data Base show no components of this product to cause damage to fertility or the unborn child.

11.9 Skin Sensitisation OECD Guideline Tests results found in the European Chemical Agency Data Base show no components of this product to cause skin sensitively.

11.10 Respiratory Sensitisation OECD Guideline Tests results found in the European Chemical Agency Data Base show no components of this product to cause respiratory sensitively.

11.11 Specific Target Organ Toxicity (Single Exposure): European Chemical Agency Data Base shows that components of this product may cause damage to the following organs: Eyes, Kidney, Liver, Heart, Central nervous system.

11.12 Specific Target Organ Toxicity (Repeated Exposure): None

11.13 Signs and Symptoms: Effects of overexposure can include Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed.

11.14 Carcinogenicity: OECD Guideline 453 Tests results found in the European Chemical Agency Data Base shows that no components of this product to cause cancer.

Chemical Name	IARC	ACGIH	NTP	OSHA
Methanol	Not listed	Confirmed Human Carcinogen	Not listed	Not listed

Note: ACGIH® = American Conference of Governmental Industrial Hygienists shows it to be Confirmed Human Carcinogen

Section 12 - Ecological Information

12.1

Product Name	Results	Species	Exposure
Methanol	LC50 29.4 mg/L	Fish	96 hours
Methanol	LC50 22,200 mg/L	Daphnia	48 hours

12.2 Toxicity: This chemical is not regarded as toxic to aquatic organisms. However, **DO NOT** discharge into a sewer or waterway.

12.3 Mobility: Floats on water, absorbs to soil and has low mobility.

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12.4 Persistence/degradability: This product contains no components that may persist in the environment.

12.5 PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

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.

Section 14 - Transport Information

14.1 US Transport Information



ID No.: UN 1230
Shipping Name: Methanol
Hazard Class: 3, (6.1)
Packing Group: II
Label: Flammable, Toxic
Placard: Flammable, Toxic

14.2 TDG Canadian Transport Information



ID No.: ID ID No.: UN 1230
Shipping Name: Methanol
Hazard Class: 3, (6.1)
Packing Group: II
Label: Flammable, Toxic
Placard: Flammable, Toxic

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14.3 IMDG Transport Information



ID No.: UN 1230

Shipping Name: METHANOL

Hazard Class: 3, (6.1)

Packing Group: II

Flash Point: 9.7 °C - closed cup

EmS Number: F-E, S-E

Label: Flammable, Toxic

Placard: Flammable, Toxic

14.3 ADR/RID Transport Information



ID No.: UN 1230

Shipping Name: Methanol

Hazard Class: 3, (6.1)

Flash Point: 9.7 °C - closed cup

Packing Group: II

Label: Flammable, Toxic

Placard: Flammable, Toxic

14.4 Australian Dangerous Goods Transport Information



ID No.: UN 1230

Shipping Name: Methanol

Hazard Class: 3, (6.1)

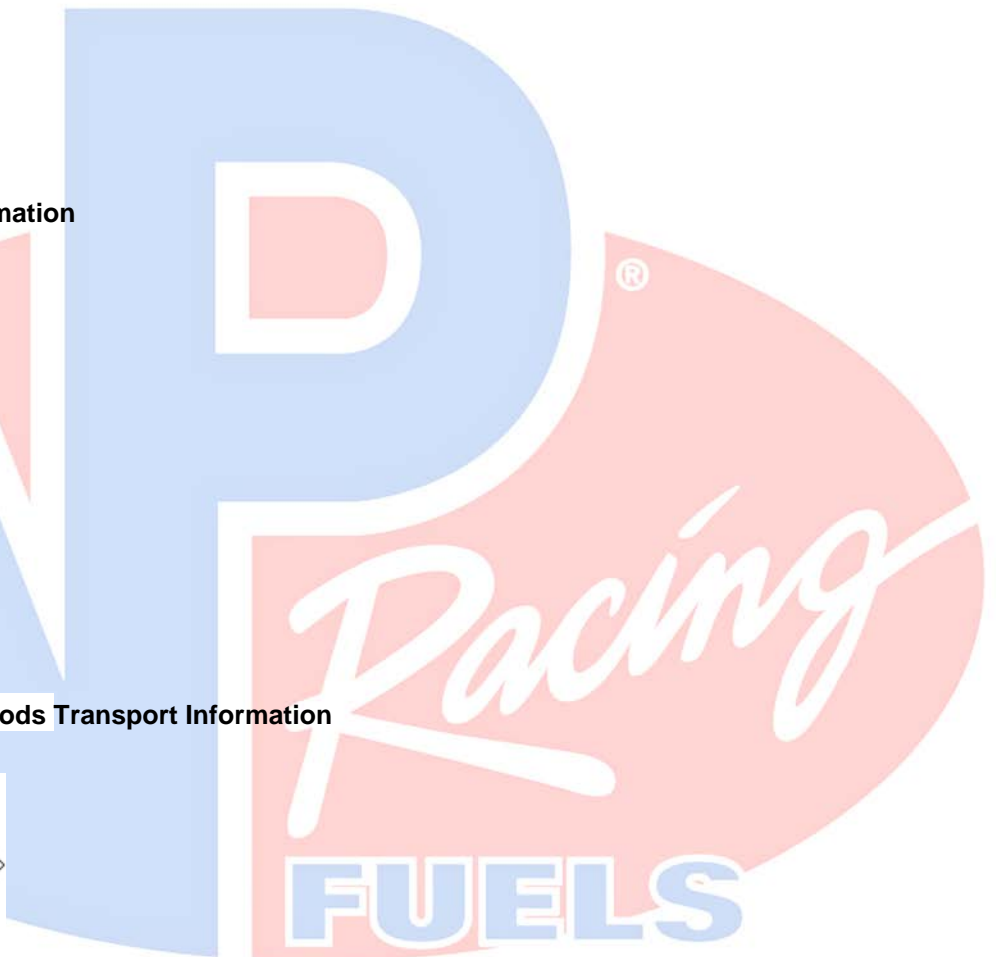
Flash Point: 9.7 °C - closed cup

Packing Group: II

Label: Flammable, Toxic

Placard: Flammable, Toxic

Hazman Code: 2WE HIN 336



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14.5 UN Dangerous Goods Transport Information



ID No.: UN 1230

Shipping Name: Methanol

Hazard Class: 3, (6.1)

Flash Point: 9.7 °C - closed cup

Packing Group: II

Label: Flammable, Toxic

Placard: Flammable, Toxic

Section 15 - Regulatory Information

15.1 US Regulations

TSCA: Methanol

CERCLA Hazardous Substances and corresponding RQs: Methanol 5000 pounds

SARA Community Right-to-Know Program: Methanol

Clean Water Act: None

Clean Air Act: Methanol

OSHA: All ingredients are regulated by 1910.1200

State Regulations

California prop. 65: Methanol Developmental

Chemicals on the following State Right to Know Lists:

Massachusetts: Methanol

New Jersey: Methanol

Pennsylvania: Methanol

15.2 Canadian Regulation:

The following substances are specified on the public Portion of the Domestic Substances List (DSL):

Methanol

15.3 Europe Regulations

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

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15.4 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 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.

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 03/17/2015

SDS Previous Issue Date: None

SDS Revision Date: 05/18/2017 Sections revised 2,4,8,9,11 &14

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