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: MR12
1.2 VP Racing Fuels, Inc., 7124 Richter Road, Elmendorf, 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: 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	Hazard Categories
Highly Flammable liquid/vapor	Category 2
Specific Target Organs toxicity single exposure	Category 3
Specific Target Organs repeated exposure	Category 1
Eye Irritation	Category 2A
Skin Irritation	Category 2
Acute Toxicity (Oral)	Category 4
Reproductive Toxicity	Category 2
Carcinogenicity	Category 1B
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:

H304: May be fatal if swallowed and enter the airway
H315: Causes skin irritation
H319: Causes serious eye irritation
H350: May cause cancer
H361: Suspected of damaging fertility or the unborn child
H336: May cause drowsiness or dizziness
H372: Causes damage to organs through prolonged or repeated exposure

ENVIRONMENTAL HAZARDS:

H411: Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children
P201: Obtain special instructions before use. READ SDS BEFORE USE
P202: Do not handle until all safety precautions have been read and understood
P210: Keep away from sparks and open flames- No smoking
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
P260: Do not breathe vapors
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in well ventilated area
P273: Avoid release to the environment
P280: Wear protective gloves, clothing and eye protection

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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
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
P308+P313: If exposed or concerned get medical attention
P362+P364: IF ON CLOTHING, take off contaminated clothing and wash it before reuse
P313+P332+P337: If skin or eye irritation persists get medical attention
H314: Get medical attention if you feel unwilling
P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire
P376: Stop leaks if safe to do so.

STORAGE STATEMENTS:

P403+P405+P235: Store in a well-ventilated place, store locked up and keep cool

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	72-83%	None
637-92-3	211-309-7	2-Methyl-2-ethoxypropane	12-18%	Methyl-2-ethoxypropane
109-87-5	203-714-2	Methyl formal	5-10%	Dimethoxymethane

3.2 Blend Contains

Chemical Names	CAS#	EC #
2,2,4-Trimethylpentane	540-84-1	208-759-1
2-Methyl-1,3-butadiene	78-79-5	201-143-3
1,3,5-Trimethylbenzene	108-67-8	203-604-4

NOTE: This blend contained ≤ 0 .3% Tetraethyle plumb CAS Number 78-00-2. All the associated physical and health hazards have been addressed in this SDS.

3.3 Trade Secret Provision and Chemical Concentration Disclosure: In accordance with OSHA and GHS Regulations we have withheld specific chemical identities. The chemical concentrations have been disclosed as a blend 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.

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 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.

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.

Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20	300ppm TWA	*300ppm TWA
2-Methyl-2-ethoxypropane	25 ppm TWA	25 ppm TWA
Methyl formal	1000 ppm TWA	*1000 ppm TWA
Tetraethyle plumb	0.1mg/m3	075mg/m3

8.2.

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 is 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

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 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

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

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

Section 9 - Physical and Chemical Properties

9.1

Physical State: Liquid
Appearance: Light Green
Odor: Aromatic Petroleum Odor
Vapor Pressure: Not Available
Vapor Density (Air=1): 3.9
Specific Gravity (H_2O=1,): 0.73
Odor Threshold: Not Available
Flammability (solid, gas): Not applicable.
Evaporation rate: Not Available
Partition coefficient octanol/water: Not Available

Water Solubility: Insoluble
Flash Point: -40°F (-40°C)
Boiling Point/ Range: 93°F (34°C)
Lower Explosive Limits (vol % in air): 1%
Upper Explosive Limits (vol % in air): 36%
Viscosity: Kinematic 0.46 cSt 104°F,40°C
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**
Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20	Oral LD50	Rat	<2000 mg/kg	None Listed
2-Methyl-2-ethoxypropane	Oral LD50	Rat	7150 mg/kg	None Listed
Methyl formal	Oral LD50	Rat	5708mg/kg	None Listed
Tetraethyle plumb	Oral LD50	Rat	14.18 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 cause Oral 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 components of this product may be fatal if swallowed and enters airways.

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 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 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 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 central nervous system (CNS).

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

11.13 Signs and Symptoms: Effects due to exposure 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 components of this product to cause cancer.

Chemical Name	IARC	ACGIH	NTP	OSHA
Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20	Not classifiable as a human carcinogen	Not classifiable as a human carcinogen	Not listed	Not listed
2-Methyl-2-ethoxypropane	None Listed	None Listed	None listed	None Listed
Methyl formal	Not listed	Not listed	Not listed	Not listed
Tetraethyle plumb	None Listed	None Listed	None listed	None 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		
2-Methyl-2-ethoxypropane	LC50 100 mg/l	Fish	96 hours
Methyl formal	LC50 6990 mg/l	Fish	96 hours
Tetraethyle plumb	LC50 0.23 mg/l	Fish	96 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 aquatic life.

12.2 Mobility: Floats on water

12.3 Persistence/degradability: Inconclusive technical data

12.4 Bioaccumulation: Inconclusive technical data

12.5 Other adverse effects: Inconclusive technical data

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 DOT Transport Information

ID No.: UN 1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: MARINE POLLUTANT 2, 2, 4-Trimethylpentane when shipping ground greater than 119 gallons' single container or any quantity by water

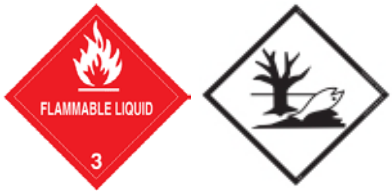
14.2 TDG Canadian Transport Information

ID No.: UN 1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: MARINE POLLUTANT 2, 2, 4-Trimethylpentane not regulated if shipped by road or rail

14.3 IMDG Transport Information

ID No.: UN 1203
Shipping Name: GASOLINE
Hazard Class: 3
Packing Group: II
Flash Point: (-40°C c.c.)
EmS Number: F-E, S-E
Label: Flammable
Placard: Flammable
Marking: Marine Pollutant 2, 2, 4-Trimethylpentane

14.4 ADR/RID Transport Information



ID No.: UN 1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: Marine 2, 2, 4-Trimethylpentane
Classification Code: F1

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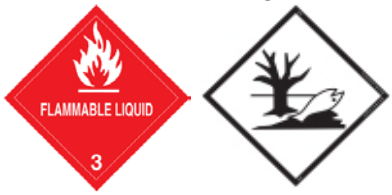
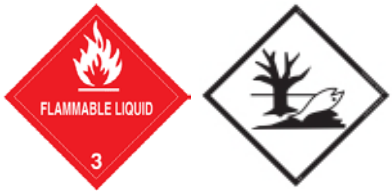
14.5 Australian Dangerous Goods Transport Information



ID No.: ID No.: UN1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: Marine Pollutant 2, 2, 4-Trimethylpentane
Marking: MARINE POLLUTANT The marine pollutant mark is only applicable for packages containing more than 5 liters for liquids.

14.5 UN Dangerous Goods Transport Information



ID No.: ID No.: UN1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: Marine Pollutant 2, 2, 4-Trimethylpentane

Section 15 - Regulatory Information

15.1 US Regulations

TSCA: 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: 2, 2, 4-Trimethylpentane 1000 pounds, 2-Methyl-1,3 butadiene 100 pounds

SARA Community Right-to-Know Program: None

Clean Water Act: 2, 2, 4-Trimethylpentane

Clean Air Act: 2-Methyl-1, 3-butadiene

OSHA: All ingredients are regulated by 1910.1200

State Regulations
California prop. 65: 2-Methyl-2-ethoxypropane Reproductive **Removed 12/2009**

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:

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

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 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.

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 05/04/2017
SDS Previous Issue Date: None
Prepared by SJC Compliance Education, Inc.
16516 El Camino Real Suite 417
Houston, TX 77062