

Safety Data Sheet

Conforms to OSHA 29CFR 1910.1200 and aligns to the United Nations Globally Harmonized System Date of Revision: 08/16/2021 Revision: 03

Section 1 - Chemical Product and Company Identification

- 1.1 Product Name U4.4 reg
- 1.2 Synonym: Blend
- **1.3** VP Racing Fuels, Inc., 7124 Richter Road, Elmendorf, TX 78112, 210.635.7744
- 1.4 Recommended Use: Racing Fuel
- 1.5 RESTRICTIONS on USE THIS FUEL IS FOR RACING VEHICLE USE ONLY!

NOT LEGAL FOR STREET DRIVEN MOTOR VEHICLE

1.6 Emergency Telephone: CHEMTREC 800-424-9300

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

1.7 See Section 16.3 for CHEMTREC in Country Emergency Numbers

Section 2 - Hazards Identification

2.1 GHS HAZARD

Reproductive Toxicity

Toxic to Aquatic Life Long Lasting Effects

Aspiration Hazard

Hazard Classes

Extremely Fla	Category	1			
Specific Targ	et Organs	toxicity s	ingle exposure	e Category	3
Specific Targ	et Organs	repeated	exposure	Category	1
Eye Irritation				Category	2B
Skin Irritation	1			Category	2
Skin Sensitis	ation			Category	1
Acute Toxicit	y (Oral)			Category	4
Acute Toxicit	y (Inhalatio	on)		Category	4
Mutagenicity				Category	1B
Carcinogen				Category	1B

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Hazard Categories

Category 2

Category 1

Category 2

2.2 Signal Word: Danger



2.4 Hazard Statements

PHYSICAL HAZARDS: H224: Extremely flammable liquid and vapor.

HEALTH HAZARDS: H302: Harmful if swallowed.

H304: May be fatal if swallowed and enter the

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation. H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the

unborn child.

H332: Harmful if inhaled.

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.

P233: 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.

P260: Do not breathe vapors and mist.

P264: Wash hands thoroughly after handling P270: Do not eat, drink, or smoke when using

this product.

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P271: Use only outdoors or in a well-ventilated

area.

P273: Avoid release to the environment.

P280: Wear protective gloves, clothing, and eye

protection.

RESPONSE STATEMENTS:

P301 +P310+ P331: IF SWALLOWED: <u>USA</u> Immediately call the National POISON CENTER at 800-222-1222. <u>OUTSIDE USA</u> Immediately call a 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.

P313+P332+P337: If skin or eye irritation

persists, get medical attention.

H314: Get medical attention if you feel unwell.

P330: Rinse mouth.

P362+P364: IF ON CLOTHING, take off

contaminated clothing and wash it before reuse

P370+P378: In the fire, use foam, carbon dioxide, dry chemical to extinguish the fire.

STORAGE STATEMENTS: P403+P235: Store in a well-ventilated place and

keep cool.

P405: Store locked up

DISPOSAL STATEMENTS: P501: Dispose of content and container

following 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	Classification
N/A	N/A	Blend of Aliphatic and Aromatic Hydrocarbons C-2 to C-20	60-65	None
1634-04-4	216-653-1	2-Methoxy-2-methylpropane	35-45	Flam. Liq. 2 H225, Skin Irrit. 2 H315

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138-86-3	205-341-0	Dipentene	0.1-0.5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. H315, Skin Sens. 1 H317, Aquatic Acute 1 H400, H410 Aquatic Chronic 1
78-00-2	201-075-4	Tetraethyl plumb	0.01-0.1	Acute Tox. 2 H300, Acute Tox. 1 H310, Acute Tox. 2 H330, Repr. 1A H360, STOT RE 2 H373, Aquatic Chronic 1 H410, Aquatic Acute 1 H400

3.2 Blend

Chemical Names	CAS#	EC#	Classification
Phenylmethane	108-88-3	203-625-9	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye Irrit 2, H319, STOT SE 3 Central nervous Sys Inhalation H336, Repr. 2 H361, STOT RE 2 Central nervous sys H373
Trimethylethylene	513-35-9	208-156-3	Flam. Liq. 2 H225, Acute Tox. 4 H302, Muta 1B H340, Carc.1B H350, Aquatic Chronic 2 H411
2, 2, 4-Trimethylpentane	540-84-1	208-759-1	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye Irrit 2, H319, STOT SE 3 H336, Repr. 2 H361, Aquatic Chronic 1 H410, Aquatic Acute 1 H400

3.3 Trade Secret Provision and Chemical Concentration Disclosure: Following OSHA and GHS Regulations, we have withheld specific percentages of the chemicals in this mixture. The chemical concentrations have been disclosed as a blend and apply to the hazards 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 and lead to irritation and 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 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.

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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 the following exposure may be more related to the time between exposure and treatment than the amount of 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 according to 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 products.
- **5.3 Extinguishing Media:** Carbon dioxide, dry chemical, foam.
- **5.4** Fire Fighting Equipment/Instructions: Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

Section 6 - Accidental Release Measures

- **6.1 Spill /Leak Procedures:** Ventilate area highly flammable. Spillages of the 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 the material. Stop leak if without risk. Move containers from the 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 the 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	20-300 ppm TWA	20-300 ppm TWA	
2-Methoxy-2-methylpropane	50 ppm TWA	50 ppm TWA	

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Tetraethyle plumb	0.1mg/m3	0.75mg/m3.	
Dipentene	None Shown	None Shown	

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 workweek which shall not be exceeded.

- **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 them 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 a multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as backup 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 before use. Use proper glove removal techniques 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: Viton Splash contact: Viton

Registered trademark of The Chemours Company FC, LLC.

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: Light Green

Odor: Aromatic Hydrocarbon Odor Vapor Pressure: Not Available Vapor Density (Air=1): >1 Specific Gravity (H2O=1,): 0.76 Relative Density: Not Available Odor Threshold: Not Available

Flammability (solid, gas): Not applicable.

Evaporation rate: Not Available

Partition coefficient octanol/water: Not

Available

Water Solubility: Insoluble

Melting point/freezing point: Not Available

Flash Point: -49°F (-45°C) c.c.

Boiling Point / Range: 91.9 – 258.6°F

 $(33.2 - 125.8^{\circ}C)$

Lower Explosive Limits (vol % in air): 1% Upper Explosive Limits (vol % in air): 8%

Viscosity: <20.5mm2/s 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

Acute Toxicity Estimate for this blend (ATE)

ATE (Oral): 1724 mg/kg ATE (Dermal): 4761 mg/kg

ATE (Inhalation vapor/mist): 15.5 mg/l

- **11.1.1** OECD Guideline Test results found in the European Chemical Agency Database show product's components to cause Harmful Oral Toxicity.
- **11.1.2** OECD Guideline Test results found in the European Chemical Agency Database show no components to cause Harmful Dermal Toxicity.
- **11.1.3** OECD Guideline Test results found in the European Chemical Agency Database show product's components to cause Harmful Inhalation Toxicity.
- **11.1.1** OECD Guideline 401 Tests results found in the European Chemical Agency Database show that this product's components cause Oral Toxicity.
- **11.2** Route of Entry: Inhalation, Ingestion, Absorption, Skin, and Eye Contact.
- **11.3 Aspiration Hazard:** European Chemical Agency Database shows that components of this product may be fatal if swallowed and enters the airways.

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- **11.4 Mutagenicity:** OECD Guideline Test results found in the European Chemical Agency Database show components of this product to cause genetic defects.
- **11.5 Skin Corrosion/Irritation:** OECD Guideline Test results found in the European Chemical Agency Database show that this product's components cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- **11.6 Serious Eye Damage/Irritation:** OECD Guideline Test results found in the European Chemical Agency Database show that components cause serious eye irritation.
- **11.7 Reproductive toxicity:** OECD Guideline Test results found in the European Chemical Agency Database show components of this product to cause damage to fertility or the unborn child.
- **11.8 Skin Sensitization** OECD Guideline Test results found in the European Chemical Agency Database show product components to cause skin sensitivity.
- **11.9 Respiratory Sensitization** OECD Guideline Test results found in the European Chemical Agency Database show no product components cause respiratory sensitivity.
- **11.10** Specific Target Organ Toxicity (Single Exposure): European Chemical Agency Database shows that components of this product may cause damage to the central nervous system (CNS).
- **11.11 Specific Target Organ Toxicity (Repeated Exposure):** Contains chemicals that may cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).
- **11.12 Signs and Symptoms:** Effects due to exposure may include: Headache, Dizziness, Drowsiness, Metabolic Acidosis, Coma, Seizures. Symptoms may be delayed
- **11.13 Carcinogenicity:** OECD Guideline Test results in the European Chemical Agency Database show that this product's components can cause cancer.
- **11.12.1** 2-Methoxy-2-methylpropane should be considered a "potential human carcinogen" due to increased leydig interstitial cell tumors of testes in male rats and an increase in lymphomas leukemias, and uterine sarcomas in female rats. In another unpublished study, 2-Methoxy-2-methylpropane was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice.

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-Methoxy-2- methylpropane	LC50 672 mg/l	Fish	96 hours	
Tetraethyl plumb	LC50 0.23 mg/l	Fish	96 hours	
Dipentene	LC50 80 mg/L	Fish	96 hours	
Dipentene	LC50 17mg/l	Algae	24 hours	

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Toxicity: OECD Guideline Test results found in the European Chemical Agency Database 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! The container should be completely emptied before discard. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

Section 14 - Transport Information

4.1 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.

14.3 IMDG Transport Information



ID No.: UN 1203

Shipping Name: GASOLINE

Hazard Class: 3 Packing Group: II Flash Point: (-45°C c.c.) EmS Number: F-E, S-E Label: Flammable Placard: Flammable

Marking: Marine Pollutant 2, 2, 4-Trimethylpentane

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14.3 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

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.

TRI Section 313: This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know- Act of 1986 (40 CFR 372):

CAS Number	Chemical Name	Chemical percentage by weight not exceeding
1634-04-4	2-Methoxy-2-methylpropane	42
108-88-3	Phenylmethane	28

This information must be included in all SDSs that are copied and distributed for this material.

CERCLA Hazardous Substances and corresponding RQs: Phenylmethane 1000 lbs., 2-Methoxy-2-methylpropane 1000 pounds.

SARA Community Right-to-Know Program: all components of this blend.

Clean Water Act:

Clean Air Act: None

OSHA: All ingredients are regulated by 29 CFR 1910.1200

State Regulations



Warning This product can expose you to chemicals 2-Methoxy-2-methylpropane CAS # 1634-04-4 (considered but not listed), Phenylmethane CAS # 188-88-3, which are known to the State of California to cause cancer and birth defects, or other reproductive harm. For more information, go

to www.P65Warnings.ca.gov.

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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 International Regulations:

Australian Inventory of Chemical Substances: 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 failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall determine 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 Database of Canadian Centre for Occupational Health and Safety (CCOHS), European Chemical Agency Database, and MSDS and SDS of chemicals in this mixture.

16.3 CHEMTREC in-country emergency dial numbers:

County	Greeting Language	City	Local number	Toll-Free number
	Latin American			
Argentina	Spanish	Buenos Aires	54-1159839431	
Brazil	Portuguese	Rio De Janeiro	55-2139581449	
Brazil	Portuguese	Sao Paulo	55-1143491359	
Brazil - Toll-Free	Portuguese		0800 892 0479	0800 892 0479
Cayman Islands	English	Local (National)	345-749-8392	
Chile	Latin American Spanish	Santiago	56 2 2581 4934	

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Colombia	Latin American Spanish		01800-710-2151	01800-710-2151
	Latin American			
Costa Rica	Spanish		506-40003869	
Dominican	Latin American			
Republic	Spanish	Santo Domingo	1 (829) 956-7588	
- republic	Latin American	Sunto Bonningo	1 (023) 330 7300	
El Salvador	Spanish	San Salvador	503 2136 7633	
Grenada	English	St George	1 (473) 230-0165	
Guinea	French	30 000180	224 660 71 03 00	
Guirica	Latin American		224 000 71 03 00	
Mexico	Spanish		01-800-681-9531	01-800-681-9531
IVIEXICO	Latin American		01-800-081-9551	01-000-001-9551
Panama	Spanish		507-8322475	
Pallallia	Latin American		307-6322473	
Down		Lina	F1 1707120F	
Peru	Spanish	Lima	51-17071295	
Trinidad and	F P.L	NI-12INII	4 000 224 5746	
Tobago	English	National Number	1-868-224-5716	
India	Hindi, Bengali,			
	English		000-800-100-7141	000-800-100-7141
Indonesia	Indonesian		001-803-017-9114	001-803-017-9114
Israel	Hebrew	Tel Aviv	972-37630639	
Japan	Japanese	Tokyo	81-345209637	
Malaysia	Malay	Kuala Lumpur	60-392125794	1-800-815-308
51.00			+63 2 8395 3308 and	
Philippines	Tagalog	Manila	1-800-1-116-1020	1-800-1-116-1020
Russia	Russian		8-800-100-6346	8-800-100-6346
Saudi Arabia	Arabic and English		966-8111095861	
Singapore	English and Mandarin		6E 21E01240	900 101 2201
Singapore	IVIAIIUAIIII		65-31581349	800-101-2201 003-0813-2549 and
South Korea	Korean			080-822-1374
Taiwan	Mandarin	Taipei	886-2-7741-4207	00801-14-8954
iaivvaii	IVIGITAGIII	Taipei	001-800-13-203-	001-800-13-203-
Thailand	Thai		9987	9987
	Hindi, Bengali,			
India	English		000-800-100-7141	000-800-100-7141
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Australia	English	Sydney	61-290372994	
New Zealand	English	Auckland	64-98010034	

South Africa	English	None	0-800—983-611	0-800—983-611

16.4 SDS Preparation Date 12/18/2015

SDS Previous Issue Date: None

SDS Revision Date: 02/05/2018 Revised sections: 1,2,3,5,8,11,12,16

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Prepared by SJC Compliance Education, Inc

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END OF SAFETY DATA SHEET



Our Passion Is Your Performance.™

www.vpracingfuels.com

Specification Sheet: U4.4 REG

(Typical Values)

Color = Green

Specific Gravity = 0.7626

MON = 98

RON = 114

(R+M)/2 = 106

Oxygen Content = 7.50%

Oxidation Stability (min.) = 1440+

Leaded: Yes

RVP = 7.16psi

Distillation

IBP = 91.9°F

10% = 129.7°F

50% = 176.7°F

90% = 229.5°F

FBP = 258.6°F

H:C ratio = 1.85

O:C ratio = 0.07

Stoichiometric A/F Ratio = 13.12

Rev = 10/04/19