



Safety Data Sheet

Conforms to OSHA 29 CFR 1910.1200 and aligns to the United Nations Globally Harmonized System
Date of Revision: 005/25/2021 Revision: 03

Section 1 - Chemical Product and Company Identification

1.1 Product Name: **T4**

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 VEHICLE**

1.6 Emergency Response Number: **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

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 2

Eye Irritation

Category 2A

Skin Irritation

Category 2

Skin Sensitization

Category 1

Acute Toxicity (Oral)

Category 4

Acute Toxicity (Inhalation)

Category 4

Mutagenicity

Category 1B

Carcinogen

Category 1B

Reproductive Toxicity

Category 2

Aspiration Hazard

Category 1

Toxic to Aquatic Life Long Lasting Effects

Category 2

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2.2 Signal Word: **Danger**



Flame Health Hazard Irritant Aquatic Hazard

2.3 Pictograms:

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.

H336: May cause drowsiness or dizziness.

H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause 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 the 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.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

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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**. **OUTSIDE USA** 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.
P308+P313: If exposed or concerned, get medical attention
P313+P333: If skin or rash occurs. Get medical attention.
P314: 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 case of fire, use foam, carbon dioxide, dry chemicals to extinguish the fire.

STORAGE STATEMENTS:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

DISPOSAL STATEMENTS:

P501: Dispose of content and container per 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	57-63%	None
637-92-3	211-309-7	2-Ethoxy-2-methylpropane	35-40%	Flam. Liq. 2 H336, STOT SE H336
103-54-8	203-121-9	Cinnamyl acetate	.01-..03	Skin Sens.1 H317

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3.2 Blend Contains

Chemical Names	CAS#	EC#	Classification
Phenylmethane	108-88-3	203-625-9	Flam. Liq. 2 H225, Asp. Tox. 1, H304, Skin Irrit. 2 H315, STOT SE 3 H336, STOT RE 2 H373, Repr. 2 H361
Alkylate Full Range	64741-64-6	265-066-7	Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye I Muta. 1B H340, Carc. 1B H350,
Pentamethylene	287-92-3	206-016-6	Flam.liq.2 H225, Aquatic Chronic 3 H412
2-Methylbutane	78-78-4	201-142-8	Flam. Liq. 1 H224, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411
2-Methyl-2-butene	513-35-9	208-156-3	Flam.Liq. 2 H225, Acute Tox.4 H302, Aso. Tox.1 H304, Skin Irrit. 2, H315, STOT SE 3 H336, Muta. 2 H351, Carc. 2 H351 Aquatic Chronic 2 H411

3.3 Trade Secret Provision and Chemical Concentration Disclosure: Per OSHA and GHS Regulations, we have withheld specific chemical percentages in this mixture. The chemical concentrations have been disclosed as a blend and applicable to the hazards identified in this Safety Data Sheet.

Section 4 - First Aid Measures

4.1 Eye: Contact with the eyes can irritate. 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 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.

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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 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 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 it 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.

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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-Ethoxy-2-methylpropane	25 ppm TWA	25 ppm TWA
Cinnamyl acetate	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

Risk assessment shows air-purifying respirators are appropriate to use a full-face respirator with multi-purpose 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.

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8.6 Protective Clothing Pictograms



Section 9 - Physical and Chemical Properties

9.1

Physical State: Liquid

Appearance: Yellow

Odor: Aromatic Hydrocarbon Odor

Vapor Pressure: Not Available

Vapor Density (Air=1): 3.9

Specific Gravity (H₂O=1,): 0.75

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: -40°F (-40°C) close cup

Boiling Point / Range: 97.7 – 402.1°F
(36.5 – 205.6°C)

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

Upper Explosive Limits (vol % in air): 9%

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

Acute Toxicity Estimate for this blend (ATE)

ATE (Oral): 1923 mg/kg

ATE (Dermal): 2174 mg/kg

ATE (Inhalation vapor/mist): 7.39 mg/l vapor

11.1.1 OECD Guideline Test results found in the European Chemical Agency Database show that \ components of this product cause Toxic Oral Toxicity.

11.1.2 OECD Guideline Test results found in the European Chemical Agency Database show that no product components cause Harmful Dermal Toxicity.

11.1.3 OECD Guideline Test results found in the European Chemical Agency Database show that this product's components cause Toxic Inhalation Toxicity.

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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.

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 no product components cause serious eye irritation. However, it still may irritate your eyes.

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 to 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 found in the European Chemical Agency Database show that this product's components can 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-ethoxy-2-methylpropane	None Listed	None Listed	None listed	None Listed
Cinnamyl acetate	None Listed	None Listed	None listed	None Listed

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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-Ethoxy-2-methylpropane	LC50 100 mg/l	Fish	96 hours
Cinnamyl acetate	None Shown		

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.

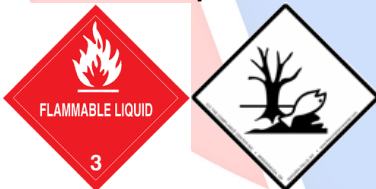
12.5 Other adverse effects: Inconclusive technical data.

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

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 Alkylate Full Range when shipping ground greater than 119 gallons' single container or any quantity by water

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14.2 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 Alkylate Full Range

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 Alkylate Full Range

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.

US TRI Reporting SARA 313: Phenylmethane

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
108-88-3	Phenylmethane	19%
110-54-3	n-Hexane	At demines% limits
100-41-4	Ethylbenzene	At demines% limits

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

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CERCLA Hazardous Substances and corresponding RQs: Phenylmethane 1000 lbs., N-Hexane 5000 lbs, Ethylbenzene 1000 lbs.

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

Clean Water Act: None

Clean Air Act: 2-methylbutane

OSHA: All ingredients are regulated by 29 CFR 1910.1200.

State Regulations



WARNING This product can expose you to chemicals: Ethylbenzene CAS # 100-41-4, Phenylmethane CAS # 188-88-3, and n-Hexane CAS # 110-54-3 the State of California to cause cancer and birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

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.

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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 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 product's suitability 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), JJ Keller online and MSDS and SDS of chemicals in this mixture.

16.3 CHEMTREC in-country emergency dial numbers:

Country	Greeting Language	City	Local number	Toll-Free number
Argentina	Latin American 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	
Colombia	Latin American Spanish		01800-710-2151	01800-710-2151
Costa Rica	Latin American Spanish		506-40003869	
Dominican Republic	Latin American Spanish	Santo Domingo	1 (829) 956-7588	
El Salvador	Latin American Spanish	San Salvador	503 2136 7633	
Grenada	English	St George	1 (473) 230-0165	
Guinea	French		224 660 71 03 00	
Mexico	Latin American Spanish		01-800-681-9531	01-800-681-9531
Panama	Latin American Spanish		507-8322475	
Peru	Latin American Spanish	Lima	51-17071295	
Trinidad and 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
Philippines	Tagalog	Manila	+63 2 8395 3308 and 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		65-31581349	800-101-2201

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	Mandarin			
South Korea	Korean			003-0813-2549 and 080-822-1374
Taiwan	Mandarin	Taipei	886-2-7741-4207	00801-14-8954
Thailand	Thai		001-800-13-203- 9987	001-800-13-203- 9987
India	Hindi, Bengali, English		000-800-100-7141	000-800-100-7141

Australia	English	Sydney	61-290372994	
New Zealand	English	Auckland	64-98010034	

South Africa	English	None	0-800—983-611	0-800—983-611
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16.4 SDS Preparation Date 05/08/2017

SDS Previous Issue Date: None

SDS Revision Date: 03/01/2019 Sections 2,3,11,12,14,15,16

SDS Revision Date: 05/25/2021 Sections 2,3,11,12,14,15,16

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END OF SAFETY DATA SHEET



Racing
FUELS