Safety Data Sheet

Conforms to 29 OSHA CFR 1910.1200 and aligns to the United Nations Globally Harmonized System
Date of Revision: 11/02/2020 **Revision: 03**

Section 1 - Chemical Product and Company Identification

1.1 Product Name: SEF 50:1 2 Cycle Fuel

1.2 Synonym: Blend

1.3 VP Racing Fuels, Inc.

1.4 Recommended Use: Small Engine Fuel

1.5 RESTRICTIONS on USE **THIS PRODUCT IS FOR SMALL 2 CYCLE GASOLINE ENGINE USE ONLY!**

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 2
Acute Toxicity Inhalation	Category 4
Eye Irritation	Category 2A
Skin Irritation	Category 2
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

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.
H332: Harmful if Inhaled.
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 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 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 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.

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

RESPONSE STATEMENTS:

P301 +310+ P331: IF SWALLOWED: Immediately call a poison center or doctor. DO NOT induce vomiting.
P303+P361+P353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340: 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 unwell
P370+P378: In case of 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 lockup.

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	97-98%	None
N/A	N/A	Synthetic 2 Cycle Oil	2 - 3%	Asp. Tox. 1 H304

3.2 Blend

Chemical Names	CAS#	EC#	Classification
1,1,2-Trimethylethane	78-78-4	201-142-8	Flam. Liq. 1 H224, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye Irrit 2, H319, STOT SE 3 Central nervous Sys Inhalation H336, Aquatic Chronic 2 H411
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
Alkylate Full Range	64741-64-6	265-066-7	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye Irrit 2, H319, STOT SE 3 Central Nervous Sys. Inhalation H336, Muta. 1B H340, Carc. 1B H350, Aquatic Chronic 2 H411
Hydrotreated light distillate	64742-47-8	265-149-8	Asp. Tox. 1 H304

3.3 Trade Secret Provision and Chemical Concentration Disclosure: Following OSHA and GHS Regulations, we have withheld specific percentages of the mixture's chemicals. 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 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 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.

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 the outcome following exposure may be 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. We will require a written statement of need and confidentiality agreement, following 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 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
Alkylate Full Range	No TLV established	No PEL established
2-Methylbutane	1000 ppm TWA	None shown
Phenylethane	20 ppm TWA	20 ppm TWA
Hydrotreated light distillate	5 mg/m3	5 mg/m3
Synthetic 2 Cycle Oil	5 mg/m3	5 mg/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 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 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 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
Viton is a Registered Trademark of The DuPont Company

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

Section 9 - Physical and Chemical Properties

9.1

Physical State: Liquid
Appearance: Blue
Odor: Aromatic Hydrocarbon Odor
Vapor Pressure: Not Available
Vapor Density (Air=1): >1
Specific Gravity (H2O=1,): 0.73
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: -31.9°F (-35.5°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): 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): 2824 mg/kg
ATE (Dermal): 2439 mg/kg
ATE (Inhalation vapor/mist): 6.67 mg/l mist

11.1.1 OECD Guideline Test results found in the European Chemical Agency Database show no product components to cause Harmful Oral Toxicity.

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

11.1.3 OECD Guideline Test results found in the European Chemical Agency Database show no product components to cause Harmful Inhalation Toxicity.

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

11.3 Aspiration Hazard: European Chemical Agency Database shows that this product's components may be fatal if swallowed and enters airways.

11.4 Mutagenicity: OECD Guideline Test results found in the European Chemical Agency Database show this product's components 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 this product's components cause serious eye irritation.

11.7 Reproductive toxicity: OECD Guideline Test results found in the European Chemical Agency Database show this product's components damage fertility or the unborn child.

11.8 Skin Sensitization OECD Guideline Tests results found in the European Chemical Agency Database show no product components to cause skin sensitivity.

11.9 Respiratory Sensitization OECD Guideline Tests 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 this product's components may damage the central nervous system (CNS).

11.11 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).

11.12 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.

Section 12 - Ecological Information

12.1

Product Name	Results	Species	Exposure
Alkylate Full Range	NOEC 0.1 mg/l	Algae	72 hours
2-Methylbutane	LC50 3.1 mg/l	Fish	96 hours
Phenylethane	LC50 7.63 mg/l	Fish	96 hours
Hydrotreated light distillate	LC50 2.9 mg/l	Fish	96 hours
Synthetic 2 Cycle Oil	Under Section 311 of the Clean Water Act and the Oil Pollution Control Act of 1990, this material is toxic to aquatic organisms.		

Toxicity: OECD Guideline Test results found in the European Chemical Agency Database show this product's components 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.

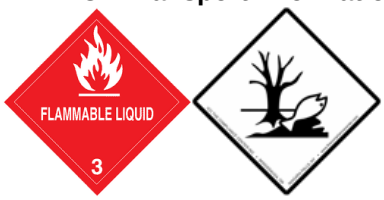
12.5 Other adverse effects: Inconclusive technical data.

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

14.2 IMDG Transport Information

ID No.: UN 1203
Shipping Name: GASOLINE
Hazard Class: 3
Packing Group: II
Flash Point: (-35.5°C c.c.)
EmS Number: F-E, S-E
Label: Flammable
Placard: Flammable
Marking: Marine Pollutant Alkylate Full Range

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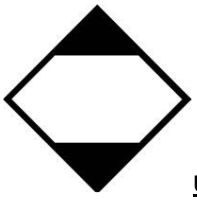
14.3 UN Dangerous Goods Transport Information

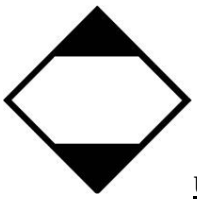
ID No.: ID No.: UN1203
Shipping Name: Gasoline
Hazard Class: 3
Packing Group: II
Label: Flammable
Placard: Flammable
Marking: Marine Pollutant Alkylate Full Range



Use marking when shipping as a consumer commodity ground in the US

14.4 DOT Transport Limited Quantity/Consumer Commodity

Inner packaging not over
1.0L (0.3 gallons) net capacity each.
Outer Package not over 30kg (66lbs) each



Use marking when shipping as a limited quantity by vessel.

14.5 IMDG Transport Limited Quantity

Inner packaging not over
1.0L (0.3 gallons) net capacity each.
Outer Package not over 30kg (66lbs) each
ID No.: UN 1203
Shipping Name: GASOLINE LTD.QTY.
Hazard Class: 3
Packing Group: II
Flash Point: (-35.5˚ C c.c.)
EmS Number: F-E, S-E
NOTE: Because the MARINE POLLUTANT Naphtha (petroleum), full-range alkylate in the combination packaging's inner packaging is a net quantity of 5 L or less. The MARINE POLLUTANT marking is not required.

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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.

Toxic Release Inventory (TRI): 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	18%
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.

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

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,

California prop. 65

WARNING This product can expose you to chemicals including Ethylbenzene CAS # 100-41-4 and Phenylmethane CAS # 188-88-3, and n-Hexane CAS # 110-54-3, 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.

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 the Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller onLine, European Chemical Agency Data Base, and MSDS and SDS of chemicals in this mixture.