



Safety Data Sheet

Conforms to OSHA 29 CFR 1910.1200 and aligns with the United Nations Globally Harmonized System
Date of Revision: 04/01/2024
Revision: 01 Batch # X23E8

Section 1 - Chemical Product and Company Identification

1.1 Product Name: **SEF 2 Cycle 50:1**

1.2 Synonym: Blend

1.3 VP Racing Fuels, Inc., 7124 Richter Road, Elmendorf, TX 78112, 210.635.7744

1.4 Recommended Use: Small Engine Fuel

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

1.6 Emergency Response Number: **CHEMTREC 1-800-424-9300**

Local Emergency Telephone Number: **+1-703-527-3887**

Section 2 - Hazards Identification

2.1 GHS HAZARD

Hazard Classes

Hazard Categories

Flammable liquid

Category 2

Specific Target Organs toxicity single exposure

Category 3

Specific Target Organs repeated exposure

Category 2

Skin Irritation

Category 2

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

GHS Classification Scale (1= severe hazard; 4= slight hazard)

2.2 Signal Word: **Danger**

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2.3 Pictograms:

Flame Health Hazard Irritant Aquatic Hazard Keep away from Children.

2.4 Hazard Statements

PHYSICAL HAZARDS:

H225: Highly flammable liquid and vapor.

HEALTH HAZARDS:

H304: May be fatal if swallowed and enters airways.

H315: Causes skin 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 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.

P203: Obtain special instructions before use.

READ SDS BEFORE USE.

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.

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

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RESPONSE STATEMENTS:

P301 +P310+ P331: IF SWALLOWED:
Immediately call the National POISON CENTER at **800-222-1222**. 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.
P308+P313: If exposed or concerned, get medical attention.
P313+P332: If skin irritation occurs, get medical attention.
H314: Get medical attention if you feel unwell.
P362+P364: IF ON CLOTHING, take off. contaminated clothing and wash it before reuse
P370: In case of fire, use foam, carbon dioxide, or dry chemicals to extinguish the fire.
P391: Collect spillage.

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: Ocular eye irritation from vapors inflammation can occur. The liquid may cause burning pain and transient corneal injury when splashed in the eye **IF IN THE EYES: Rinse cautiously with water for at least 15 minutes. GET MEDICAL ATTENTION.** Repeated liquid exposure may cause skin dryness or cracking.

Section 3 - Composition / Information on Ingredients

3.1

CAS#	Chemical Names	Percent	Classification
68527-27-5	Naphtha (petroleum), full range alkylate	68.5989432	Asp. Tox. 1 H304, Muta. 1B H340, Carc. 1B H350
108-88-3	Toluene	19.6	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE H336, Repr. 2 H361, STOT RE 2 H373
78-78-4	Isopentane	9.8	Flam. Liq. 1 H224, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
WPS 1773511	Synthetic 2-cycle oil	2	Asp. Tox. 1 H304
WPS 1318965	Blue dye	0.001056803	Carc. 2 H351, Aquatic Chronic 2 H411

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

Section 4 - First Aid Measures

4.1 Description of First Aid Measures

4.1.1 General information: Ensure medical personnel know the material(s) involved and take precautions to protect themselves.

4.1.2 Following Inhalation: Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

4.1.3 Following Skin contact: Flush skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

4.1.4 Following eye contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.1.5 Following ingestion: Do NOT induce vomiting. Get medical aid immediately.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1: 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.

4.2.2: Prolonged and repeated liquid contact with the skin can cause defatting and drying, leading to irritation and dermatitis.

4.2.3: 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.

4.2.4: Prolonged breathing of high vapor concentrations can produce headaches, dizziness, nausea, and impaired vision. Excessive overexposure can cause central nervous system depression, loss of consciousness, liver damage, and death resulting from respiratory failure.

4.3 Indication of any immediate medical attention and special treatment needed: The severity of 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.

Note to Physicians: If you determine that a medical emergency exists. The specific chemical identity is necessary for emergency or first-aid treatment and will be immediately disclosed the specific chemical identity. Call CHEMTREC 800-424-9300 or +1-703-527-3887. We will require a written statement of need and confidentiality agreement as soon as circumstances permit. In non-emergency situations, we will, upon written request, disclose a specific chemical identity.

Section 5 - Fire-Fighting Measures

General fire hazards: Highly flammable liquid and vapor.

5.1 Extinguishing media:

Suitable extinguishing media: Water fog. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

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Unsuitable extinguishing media: Do not use a water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: Vapors may form explosive mixtures with air. Vapors may travel a considerable distance to a source of ignition and flashback. During a fire, gases hazardous to health may be formed.

5.3 Advice for firefighters: Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

Additional information: Do not release runoff from fire to sewers or waterways.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures:

6.1.1 For non-emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spills and leaks. Take precautionary measures against static discharge. Eliminate all ignition sources. No smoking, flames, sparks, or flames in the immediate area. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

6.1.2 For emergency responders: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions: Avoid direct contact with the material. Stop leaking without risk. Move containers from the spill area. Prevent entry into sewers or waterways.

6.3 Methods and material for containment and cleaning up:

6.3.1 For containment: Eliminate all ignition sources (no smoking, flares, sparks, or flames in the immediate area). Keep combustibles such as wood, paper, and oil) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water's surface. Prevent entry into waterways, sewers, basements, or confined areas.

6.3.2 For clean-up:

6.3.2.1 Small spill: Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal. Clean the surface thoroughly to remove residual contamination.

6.3.2.2 Large spill: Stop the material flow if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place it into a container for later disposal. Following product recovery, flush the area with water.

6.3.3 Other information: Never return spills to original containers for reuse. Put material in suitable, covered, labeled containers.

6.4 Reference to other sections: See section 8 of the SDS for personal protection. For waste disposal, see section 13 of the SDS.

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Section 7 - Handling and Storage

7.1 Precautions for safe handling: Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid contact with eyes. Observe good industrial hygiene practices. Provide adequate ventilation. Take precautionary measures against static discharge. Eliminate all ignition sources. No smoking, flames, sparks, or flames in the immediate area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Avoid release to the environment. Observe good industrial hygiene practices.

7.1.1 Bonding and grounding plastic containers:

When bonding and grounding two non-conductive containers, a static electrical charge can be generated when two dissimilar materials (Metal and Plastic) pass quickly by one another; their many factors affect the size and strength of the static charge or potential that may develop, such as speed of transfer, humidity, and container size. Therefore, the transfer of flammable liquids between plastic or other non-conductive containers should be under the following conditions:

1. A non-conductive container must be equipped with an approved metallic suction pump and draw tube for taking liquid from the top of a plastic container. The pump must be electrically grounded.
2. The non-conductive container must have a metallic, self-closing faucet that can be grounded electrically.

Additionally, flammable liquids between small containers may not require special bonding and grounding techniques. NFPA 77-1993 states that glass containers or other non-conductive materials of five gallons or less capacity are usually filled without special precautions." However, NFPA 77-1993 suggests that special techniques should handle flammable liquids in plastic containers with 5 to 60 gallons for larger containers would consider compliance with NFPA 77-1993 regarding the Bonding and grounding of plastic containers holding flammable liquids.

7.2 Conditions for safe storage, including incompatibilities: Store locked up in a cool, dry, well-ventilated place out of direct sunlight. Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a tightly closed container. Store away from incompatible materials (see section 10).

Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Naphtha (petroleum), full range alkylate	No TLV established	No PEL established
Toluene	20 ppm TWA	200 ppm TWA
Isopentane	1000 ppm TWA	None shown
Synthetic 2-cycle oil	5 mg/3 TWA	5 mg/3 TWA
Blue Dye	None shown	None shown

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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 workweek 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 that air-purifying respirators are appropriate, use a full-face respirator with a 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

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, and 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



Splash Goggles



Gloves



Protective Apron



Vapor Respirator

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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): 0.7325

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: <73.4°F (<23°C) c.c. Estimated

Boiling Point / Range: 95.1°F, (35.05°C)

Lower Explosive Limits (vol % in air): Not Available

Upper Explosive Limits (vol % in air): Not Available

Viscosity: <20.5mm²/s @104°F 40°C

Autoignition 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: Avoid heat, sparks, open flames, and other ignition sources. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

Section 11- Toxicological Information

11.1

Acute Toxicity Estimate for this blend (ATE)

ATE (Oral): 2631 mg/kg

ATE (Dermal): 2439 mg/kg

ATE (Inhalation vapor/mist): 4.8 mg/l mist

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

11.1.2 OECD Guideline Test results found in the European Chemical Agency Database show that no components of this product 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 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 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 that components of this product cause genetic defects.

11.5 Skin Corrosion/Irritation: OECD Guideline Test results found in the European Chemical Agency Database show that product 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 components of this product cause serious eye irritation. However, it can irritate the eyes.

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

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

11.9 Respiratory Sensitization OECD Guideline Tests results found in the European Chemical Agency Database show no components of this product 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, and central nervous system (CNS).

11.12 Signs and Symptoms: Effects due to exposure may include Headache, Dizziness, Drowsiness, Metabolic Acidosis, Coma, and 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 cause cancer.

Section 12 - Ecological Information

12.1

Product Name	Results	Species	Exposure
Naphtha (petroleum), full range alkylate	LC50 3.1 mg/l	Fish	96 hours
Naphtha (petroleum), full range alkylate	EL50 4.5 mg/l	Daphnia	48 hours
Naphtha (petroleum), full range alkylate	EL50 45 mg/l	Algae	96 hours
Toluene	LC50 7.63 mg/l	Fish	96 hours
Toluene	EC50 6 mg/l	Daphnia	48 hours
Isopentane	LC50 34.5 mg/l	Fish	96 hours
Isopentane	EC50 59.4 mg/l	Daphnia	48 hours
Isopentane	EC50 10.7 mg/l	Algae	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.		
Blue Dye	LC50 3.6 mg/l	Fish	96 hours

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

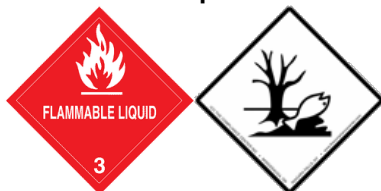
12.5 Other adverse effects: Inconclusive technical data.

Section 13 - Disposal Considerations

13.1 Disposal: DO NOT REUSE EMPTY CONTAINER! Empty containers retain some liquid and vapor residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, sparks, static electricity, or other ignition sources. The container should be completely emptied before discarding. 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

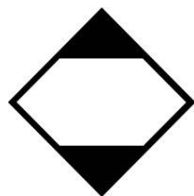
Hazard Class: 3

Packing Group: II

Label: Flammable

Placard: Flammable

Marking: MARINE POLLUTANT Isopentane when shipping ground greater than 119 gallons single container or any quantity by water.



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

14.2 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

Section 15 - Regulatory Information

15.1 US Regulations

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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	Toluene	19.6%
110-54-3	n-Hexane	At demines% limits
71-43-2	Benzene	At demines% limits
91-20-3	Naphthalene	At demines% limits

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

CERCLA Hazardous Substances and corresponding RQs: Toluene 1000 lbs. n-Hexane 5000 lbs. Benzene 10 lbs. Naphthalene 10 lbs.

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

Clean Air Act: Isopentane

Clean Water Act: None

OSHA: All ingredients are regulated by 29 CFR 1910.1200.

State Regulations

California prop. 65



WARNING: This product can expose you to chemicals, including Benzene CAS 7143-2, Naphthalene 91-20-3, Toluene CAS # 188-88-3, and n-Hexane CAS # 110-54-3, 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 product components are on the Massachusetts Inventory or exempt from Inventory requirements.

New Jersey All product components are on the New Jersey inventory or exempt from Inventory requirements.

Pennsylvania: All product components are on the Pennsylvania Inventory or 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 product's suitability for their particular purpose and assume the risk of its use.

16.2 References: The European Chemical Agency Database and the MSDS and SDS of chemicals in this mixture.

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16.3 SDS Preparation Date 11/18/2022

SDS Previous Issue Date: None

SDS Revision Date: 05/10/2023 Sections **Batch # X23E8** 2,3,8,9,11,12,14,15,16

SDS Revision Date: 04/01/2024 Sections 3,8,11,12,15,16

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END OF SAFETY DATA SHEET