



## Safety Data Sheet

Conforms to OSHA 29 CFR 1910.1200 and aligns to the United Nations Globally Harmonized System  
Date of Revision: 12/16/2020 Revision: 03

### Section 1 - Chemical Product and Company Identification

1.1 Product Name: RC Hobby Fuel 1-60%

1.2 Blend

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

1.4 Recommended Use: R/C Model Engine Fuel

1.5 **RESTRICTIONS on USE THIS FUEL IS FOR R/C MODEL ENGINE USE ONLY!**

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 Number

### Section 2 - Hazards Identification

#### 2.1 GHS HAZARD

##### Hazard Classes

##### Hazard Categories

Highly Flammable liquid/vapor

Category 2

Specific Target Organ Toxicity single exposure

Category 1

Acute Toxicity (Oral)

Category 3

Acute Toxicity (Inhalation)

Category 3

Acute Toxicity (Dermal)

Category 3

2.2 Signal Word: **Danger**



#### 2.3 Pictograms:

Flame

Health Hazard

Toxic

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### 2.4 Hazard Statements

PHYSICAL HAZARDS:	H225: Highly flammable liquid and vapor.
HEALTH HAZARDS:	H301 + H311: Toxic if swallowed or in contact with skin. H331: Toxic if inhaled. H370: May cause damage to organs.
ENVIRONMENTAL HAZARDS:	None
PRECAUTIONARY STATEMENTS:	P102: Keep out of reach of children. P210: Keep away from sparks and open flames- No smoking. P240: Ground or bond container and receiving equipment. P241: Use explosion-proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260: Do not breathe vapors. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, clothing, and eye protection.
RESPONSE STATEMENTS:	P301 +310+ P331: IF SWALLOWED: <u>USA</u> Immediately call the National POISON CENTER at <b>800-222-1222</b> . <u>OUTSIDE USA</u> Immediately call a poison center or doctor. DO NOT induce vomiting. P302+P352: IF on SKIN, wash with plenty of water. P304+340: IF INHALED: Remove to fresh air and keep comfortable for breathing. P312: Call the poison center if you feel unwell. P330: Rinse mouth. P361: Take off immediately all contaminated clothing and wash before reuse. 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. Keep cool. P405: Store locked up.

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### 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
75-52-5	200-876-6	Nitrocarbol	1%-60%	Flam Liq. 3 H226, Acute Tox 4 H302,
67-56-1	200-659-6	Carbinol	1%-78%	Flam. Liq. H225, Acute Tox. H301, Acute Tox. 3, H311, Acute Tox. 3, H331, STOT SE1 H370
8001-79-4	232-293-8	Ricinus oil	0%-25%	Not classified
25322-69-4	500-039-8	Propylene oxide homopolymer	0%-25%	Not classified

**3.2 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 range 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.

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**4.5 After first aid, get appropriate paramedic or community medical support.** The severity of outcome following ingestion may be related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion 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 at 800-424-9300 or 703-527-3887. 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.

### Section 8 - Exposure Controls / Personal Protection

#### 8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Nitrocarbol	20ppm TWA	100 ppmTWA
Carbinol	200ppm TWA	200ppmTWA
Ricinus oil	Not Established	Not Established
Propylene oxide homopolymer	Not Established	Not Established

**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.

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**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: Butyl-rubber

Splash contact: Nitrile rubber

#### 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:** Various

**Odor:** Aromatic Alcohol odor

**Vapor Pressure:** Not Available

**Vapor Density (Air=1):** >1

**Specific Gravity (H<sub>2</sub>O=1):** 0.80

**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:** Slightly soluble

**Flash Point:** 52°F (11°C) closed cup

**Boiling Point:** 148.5°F (64.7°C)

**Lower Explosive Limits (vol % in air):** 5%

**Upper Explosive Limits (vol % in air):** 36%

**Melting Point:** Not Available

**Viscosity:** Not Available

**Autoignition Temperature:** Not Available

**pH:** None

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### 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): 261.7 mg/kg

ATE (Dermal): 370.3 mg/kg

ATE (Inhalation vapor/mist): 8.38 mg/l

**11.1.1** OECD Guideline Tests results found in the European Chemical Agency Database show that this product's components to be Acute Oral Toxicity.

**11.1.2** OECD Guideline Tests results found in the European Chemical Agency Database show that this product's components are Acute Inhalation Toxicity.

**11.1.3** OECD Guideline Tests results found in the European Chemical Agency Database show that this product's components to Acute Dermal Toxicity.

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

**11.3 Aspiration Hazard:** European Chemical Agency Database shows that no product components may be fatal if swallowed and enters airways.

**11.4 Mutagenicity:** OECD Guideline Tests results found in the European Chemical Agency Database show no product components to cause genetic defects.

**11.5 Skin Corrosion/Irritation:** OECD Guideline Tests results found in the European Chemical Agency Database shows that no product components cause skin irritation.

**11.6 Serious Eye Damage/Irritation:** OECD Guideline Tests results found in the European Chemical Agency Database show that no product components cause serious eye irritation.

**11.7 Reproductive toxicity:** OECD Guideline Tests results found in the European Chemical Agency Database show no components of this product to cause damage fertility or the unborn child. However, components of this blend can cause damage to fertility or the unborn child.

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

**11.9 Respiratory Sensitisation:** OECD Guideline Tests results found in the European Chemical Agency Database show no components of this product cause respiratory sensitivity.

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**11.10 Specific Target Organ Toxicity (Single Exposure):** European Chemical Agency Database shows that this product's components may cause damage to the following organs: Blood, thyroid, and respiratory system.

**11.11 Specific Target Organ Toxicity (Repeated Exposure):** None

**11.12 Signs and Symptoms:** Effects of overexposure can include Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed.

**11.13 Carcinogenicity:** OECD Guideline Tests results found in the European Chemical Agency Database shows that no product components can cause cancer. However, The American Conference of Governmental Industrial Hygienists shows this blend's components to be a human carcinogen.

## Section 12 - Ecological Information

### 12.1

Product Name	Results	Species	Exposure
Nitrocarbol	LC50 460 mg/l	Fish	48 hours
Nitrocarbol	EC50 450 mg/l	Daphnia	24 hours
Nitrocarbol	IC50 36 mg/l	Aquatic	72 hours
Carbinol	LC50 29.4 g/L	Fish	96 hours
Carbinol	LC50 22,200 mg/L/	Daphnia magna	48 hours
Ricinus oil	None Listed	None Listed	None Listed
Propylene oxide homopolymer	LC50 > 10,000 mg/l	Fish	96 hours

**Toxicity:** OECD Guideline Test results found in the European Chemical Agency Databases show no 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.

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### Section 14 - Transport Information

#### 14.1 DOT Transport Information



**ID No.:** UN 1993

**Shipping Name:** Flammable liquids, n.o.s. (Nitromethane, Methanol)

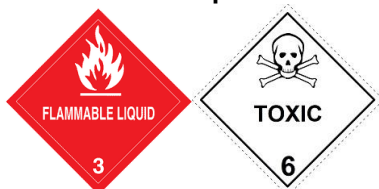
**Hazard Class:** 3

**Packing Group:** II

**Label:** Flammable

**Placard:** Flammable

#### 14.2 IMDG Transport Information



**ID No.:** UN 1992

**Shipping Name:** FLAMMABLE LIQUIDS, TOXIC, NOS (Nitromethane, methanol)

**Hazard Class:** 3, (6.1)

**Packing Group:** II

**Flash Point:** 11°C - closed cup

**EmS Number:** F-E, S-E

**Label:** Flammable, Toxic

**Placard:** Flammable, Toxic

#### 14.3 UN Dangerous Goods Transport Information



**ID No.:** UN 1992

**Shipping Name:** Flammable liquids, toxic, n.o.s. (Nitromethane, Methanol)

**Hazard Class:** 3, (6.1)

**Packing Group:** II

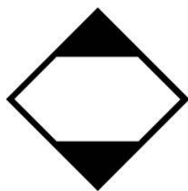
**Label:** Flammable, Toxic

**Placard:** Flammable, Toxic



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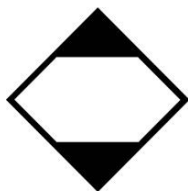
Use marking when shipping as a limited quantity by ground.

### 14.4 DOT Transport Limited Quantity

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 1992

Shipping Name: FLAMMABLE LIQUIDS, TOXIC, NOS (Nitromethane methanol)

Hazard Class: 3, (6.1)

Packing Group: II

Flash Point: 11°C - closed cup

EmS Number: F-E, S-E

## 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
75-52-5	Nitrocarbol	60%
67-56-1	Carbinol	78%

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

**CERCLA Hazardous Substances and corresponding RQs:** Carbinol 5000 pounds.

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

**Clean Water Act:** None

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**Clean Air Act:** None

**OSHA:** All ingredients are listed in 29 CFR1910.1200.

**California prop. 65**



**WARNING** This product can expose you to chemicals including 2-Methylbutadiene CAS # 79-78-5, Nitrocarbol CAS # 75-52-5, and Carbinol CAS # 67-56-1, 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](http://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 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, European Chemical Agency Database, and MSDS and SDS of chemicals in this mixture.

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### 16.3 CHEMTREC in-country emergency dial numbers:

County	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	

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County	Greeting Language	City	Local number	Toll-Free number
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 Mandarin		65-31581349	800-101-2201
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

County	Greeting Language	City	Local number	Toll-Free number
Australia	English	Sydney	61-290372994	
New Zealand	English	Auckland	64-98010034	

County	Greeting Language	City	Local number	Toll-Free number
South Africa	English	None	0-800—983-611	0-800—983-611

**16.3 SDS Preparation Date** 03/09/2020

**SDS Previous Issue Date:** None

**SDS Revision Date: 05/01/2020 Section Revised:** 1,2,3,11,13,14,15,16

**SDS Revision Date: 12/16/2020 Section Revised:** 14,16

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