



Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System
Conforms to The United Nations Regulation Globally Harmonized System

Conforms to Regulation (EU) No 453/2010

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Conforms to the Australian Preparation of Safety Data Sheets for Hazardous Chemicals under section 274 of the Work Health and Safety Act

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Canadian The Workplace Hazardous Materials Information System (WHMIS)2015

Section 1 - Chemical Product and Company Identification

1.1 Product Name: **RC Hobby Fuel 1-60%**

1.2 VP Racing Fuels, Inc., 7124 Richter Road, Elmhendorf, TX 78112, 210.635.7744

1.3 Recommended Use: R/C Model Engine Fuel

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

1.5 Emergency Response Number: **CHEMTREC 800-424-9300**

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

1.6 See Section 16.3 for CHEMTRC in Country Emergency Number

1.7 Supplier: VP Racing Fuels Pty Ltd, Unit 24 85-115 Alfred Road, Chipping Norton, NSW 2170, Australia 02 9723 4233, Emergency Telephone: 0421 116 838.

Section 2 - Hazards Identification

2.1 GHS HAZARD

Hazard Classes

Hazard Categories

Highly Flammable liquid/vapor	Category 2
Specific Target Organ Toxicity repeated exposure	Category 2
Specific Target Organ Toxicity single exposure	Category 3
Carcinogenicity	Category 1B
Eye Irritation	Category 2A
Skin Irritation	Category 2
Acute Toxicity (Oral)	Category 3
Acute Toxicity (Inhalation)	Category 3
Acute Toxicity (Dermal)	Category 3
Reproductive toxicity	Category 2
Aspiration Hazard	Category 1
Harmful to aquatic life with long lasting effect	Category 3

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2.2 Signal Word: **Danger**



2.3 Pictograms:

Flame

Health Hazard

Toxic

2.4 Hazard Statements

PHYSICAL HAZARDS:

H225: Highly flammable liquid and vapor

HEALTH HAZARDS:

H301 + H311: Toxic if swallowed or in contact with Skin

H304: May be fatal if swallowed and enter airways

H315 : Causes skin irritation

H319: Causes serious eye irritation

H331: Toxic if inhaled

H336: May cause drowsiness or dizziness

H350: May cause cancer

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs blood, thyroid and respiratory system through prolonged or repeated exposure

ENVIRONMENTAL HAZARDS:

H412: Harmful to aquatic life with long lasting effect

PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children

P202: Do not handle until all safety precautions have been read and understood

P210: Keep away from sparks and open flames- No smoking

P260: Do not breathe vapors

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

P273: Avoid release to the environment

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

RESPONSE STATEMENTS:

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at **800-222-1222**. OUT SIDE USA Immediately call poison center or doctor. DO NOT induce vomiting

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P303+P361+353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water

P304+340: IF INHALED, remove to fresh air and keep comfortable for breathing

P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes

P306+P361: IF ON CLOTHING, Take off contaminated clothing

P308+P313: If exposed or concerned get medical attention

P330: Rinse mouth

P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire

P376: Stop leaks if safe to do so

P391: Collect spillage

STORAGE STATEMENTS:

P403: Keep Cool Store in a well-ventilated place

P405: Store locked up

DISPOSAL STATEMENTS:

P501: Dispose of content and/or container in accordance with local, regional, national or international regulations

Section 3 - Composition / Information on Ingredients

3.1

CAS#	EC#	Chemical Names	Percent	Other Identifiers
75-52-5	200-876-6	Nitrocarbol	1%-60%	NM
67-56-1	200-659-6	Carbinol	1%-78%	Methylol
8001-79-4	232-293-8	Ricinus oil	0%-25%	Cosmetol
25322-69-4	N/A	Propylene oxide homopolymer	0%-25%	PPG

3.2 Trade Secret Provision and Chemical Concentration Disclosure: In accordance with 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 are applicable to the hazards as 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 can lead to irritation and/or 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.

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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 outcome following ingestion may be more 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 800-424-9300 or 703-527-3887. We will require a written statement of need and confidentiality agreement, in accordance with 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 product.

5.3 Extinguishing Media

Carbon dioxide, dry chemical, foam

5.4 Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

Section 6 - Accidental Release Measures

6.1 Spill /Leak Procedures: Ventilate area highly flammable. Spillages of 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 material. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers or waterways. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth and place in a container for disposal.

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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
Nitrocarboul	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 work week which shall not be exceeded. *Listed on the OSHA Z1 or Z2 Table

8.3 Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation are 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

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.

Contaminated Equipment: Separate contaminated work clothes from street clothes and launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Personal protective equipment 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).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Full contact: Butyl-rubber

Splash contact: Nitrile rubber

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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).

Skin and body protection

Complete suit protecting against chemicals, 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

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): 1.1

Specific Gravity (H₂O=1,): 0.8

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: 8.3 mm²/s @ 104°F 40°C

Auto ignition 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

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Section 11- Toxicological Information

11.1 Product Name	Results	Species	Dose	Exposure
Nitrocarbol	Oral LD50	Rat	1478 mg/kg	4 hours
Carbinol	Oral LD50	Rat	1,187 mg/kg	Not available
Carbinol	Inhalation LD50	Rat	87.6mg/l	6 hours
Carbinol	Oral LD50		15000 mg/kg	Not available
Ricinus oil	Oral LD50	Rat	>5000 mg/kg	4 hours
Propylene oxide homopolymer	Oral LD50	Rat	22000 mg/kg	Not available

11.1.1 OECD Guideline 401 Tests results found in the European Chemical Agency Data Base shows that components of this product to cause Oral Toxicity.

11.1.2 OECD Guideline 403 Tests results found in the European Chemical Agency Data Base shows that components of this product to be Inhalation Toxicity.

11.1.3 OECD Guideline 402 Tests results found in the European Chemical Agency Data Base shows that components of this product to Dermal Toxicity.

11.2 Route of Entry: Inhalation, Ingestion, Absorption, Skin and/or Eye Contact

11.3 Aspiration Hazard: May be fatal if swallowed and enters airways

11.4 Mutagenicity: OECD Guideline 476 Tests results found in the European Chemical Agency Data Base show no components of this product to cause genetic defects.

11.5 Skin Corrosion/Irritation: OECD Guideline 404 Tests results found in the European Chemical Agency Data Base shows that components of this product to cause skin irritation. Repeated exposure may cause skin dryness or cracking.

11.6 Serious Eye Damage/Irritation: OECD Guideline 405 Tests results found in the European Chemical Agency Data Base shows that components of this product to cause serious eye irritation.

11.7 Reproductive toxicity: OECD Guideline 421 Tests results found in the European Chemical Agency Data Base show components of this product to cause damage to fertility or the unborn child.

11.8 Specific Target Organ Toxicity (Single Exposure): European Chemical Agency Data Base shows that components of this product may cause damage to the central nervous system.

11.9 Specific Target Organ Toxicity (Repeated Exposure): Contains material which may cause damage to the following organs Blood, Kidneys, Liver and Central nervous system (i.e. brain, spinal cord).

11.10 Signs and Symptoms: Effects of overexposure can include headaches, nausea, dizziness, vomiting, drowsiness, incoordination and confusion. Symptoms may be delayed.

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11.11 Carcinogenicity: OECD Guideline 453 Tests results found in the European Chemical Agency Data Base shows that components of this product to cause cancer.

Chemical Name	IARC	ACGIH	NTP	OSHA
Nitrocarbol	Agent indicates the substance is possibly carcinogenic to humans.	Confirmed animal with unknown relevance to humans.	The substance is reasonably anticipated to be a human carcinogen	Not Listed
Carbinol	Not listed	Confirmed Human Carcinogen	Not listed	
Ricinus oil	Not listed	Not listed	Not listed	Not Listed
Propylene oxide homopolymer	Not listed	Not listed	Not listed	Not Listed

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 magna	24 hours
Nitrocarbol	IC50 36 mg/l	Aquatic plants	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 204 Test results found in the European Chemical Agency Data Base show components of this product to cause long-term toxicity to fish.

Mobility: Floats on water.

Persistence/degradability: No data on this product.

PBT and vPvB assessment: No data on this product.

Section 13 - Disposal Considerations

13.1 Disposal: DO NOT REUSE EMPTY CONTAINER! Container should be completely emptied prior to discard. Container with residues should be considered to be hazardous wastes. 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 TDG Canadian 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

14.3 IMDG Transport Information



ID No.: UN 1992

Shipping Name: FLAMMABLE LIQUIDS, TOXIC, N.O.S. (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

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14.4 ADR/RID 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

Classification Code: FT1

14.5 Australian 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

14.6 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 ground in the Canada

14.7 TDG Canada Transport Limited Quantity

Inner packaging not over

1.0L (0.3 gallons) net capacity each.

Outer Package not over 30kg (66lbs) each

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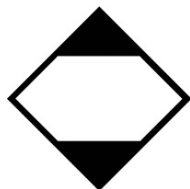
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Use marking when shipping as a limited quantity by vessel.

14.9 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 1268

Shipping Name: FLAMMABLE LIQUIDS, TOXIC, N.O.S. (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

CERCLA Hazardous Substances and corresponding RQs: Carbinol 5000 pounds

SARA Community Right-to-Know Program: Nitrocarbol, Carbinol

Clean Water Act: Castor Oil, Polypropylene Glycol

Clean Air Act: Carbinol

OSHA: All ingredients are listed in 1910.1200

State Regulations

California prop. 65: Nitromethane Carcinogen, Carbinol causes birth defects or other reproductive harm and cancer

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.

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15.2 Canadian Regulation:

The following substances are specified on the public Portion of the Domestic Substances List (DSL): All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

15.3 Europe Regulations

All substances contained in this product are listed on the EU directives or are not required to be listed.

15.4 International Regulations:

Australian Inventory of Chemical Substance: 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 from 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 suitability of the product for their particular purpose and on the condition, that they assume the risk of their use.

16.2 References: CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Data Base and MSDS and SDS of chemicals in this mixture.

16.3 CHEMTREC in country emergency dial numbers:

Australia (Sydney) + (61)-290372994

China 4001-204937 Must be call within China

Germany 0800-181-7059 Must be call within Germany

Germany (Frankfurt) + (49)-6964350840

Russia 8-800-100-6346 Must be call within Russia

16.3 SDS Preparation Date 03/09/2017

SDS Previous Issue Date: None

Prepared by SJC Compliance Education, Inc.

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