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
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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

Section 1 - Chemical Product and Company Identification

1.1 Product Name: **Nitrorace™ 90**

1.2 Producer: VP Racing Fuels, Inc., 7124 Richter Road, Elmendorf, TX (USA) 78112, 210.635.7744

1.4 **RECOMMENDATIONS on USE** THIS FUEL IS FOR RACING VEHICLE USE ONLY! NOT LEGAL FOR STREET DRIVEN MOTOR VEHICLE

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

1.6 **Emergency Telephone:** CHEMTREC 800-424-9300

    International Emergency Telephone Number: +1-703-527-3887
    Australia (Sydney) + (61)-290372994

1.7 See Section 16.3 for CHEMTREC in Country Emergency Numbers

Section 2 - Hazards Identification

2.1 GHS CLASSIFICATION

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquid/vapor</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific Target Organs toxicity single exposure</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity repeated exposure</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute Toxicity (Oral)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute Toxicity (Inhalation)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute Toxicity (Dermal)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>
**Nitrorace™90**

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<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Category 1B</th>
<th>Harmful to aquatic life long lasting effects</th>
<th>Category 3</th>
</tr>
</thead>
</table>

2.2 **Pictograms:**

| Flame | Irritant | Health Hazard | Toxic |

2.3 **Signal Word** Danger

2.4 **Hazard Statements**

**PHYSICAL HAZARDS:**

- H226: Flammable liquid and vapor

**HEALTH HAZARDS:**

- H301 + H311: Toxic if swallowed or in contact with skin.
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H331: Toxic if inhaled
- H350: May cause cancer
- H361: Suspected of damaging fertility or the unborn child
- H336: May cause drowsiness or dizziness
- H370: Causes damage to organs
- 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 effects

**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
- P280: Wear protective gloves, clothing and eye protection
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RESPONSE STATEMENTS:
P301 +310+ P331: IF SWALLOWED: Immediately call the National POISON CENTER at 800-222-1222. 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
P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes
P306+P361: IF ON CLOTHING, Take off contaminated clothing
P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire
P376: Stop leaks if safe to do so. See section 6 for proper clean up

STORAGE STATEMENTS:
P403+P233: Store in a well-ventilated place. Keep container tightly closed

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

Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>EC #</th>
<th>Chemical Names</th>
<th>Percent</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-52-5</td>
<td>200-876-6</td>
<td>Nitrocarbol</td>
<td>90%</td>
<td>NM</td>
</tr>
<tr>
<td>67-56-1</td>
<td>200-659-6</td>
<td>Carbinol</td>
<td>10%</td>
<td>Hydroxymethane</td>
</tr>
</tbody>
</table>

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.
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 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:
Keep away from ignition sources such as heat, sparks and open flames. NO SMOKING
Take precautionary measures against static discharge. Non sparking tools should be used. Wear protective gloves, clothing and eye protection. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment. Empty containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death.

#### 7.2 Storage Requirements:
Store in original manufacture container tightly closed container in a cool, dry and well-ventilated area.

#### 7.3 Chemical Incompatibilities:
Shock, heat, oxidizers, hydrocarbons, hydroxides, inorganic bases, amines

### Section 8 - Exposure Controls / Personal Protection

#### 8.1 Chemical Names

<table>
<thead>
<tr>
<th>Chemical Names</th>
<th>ACGIH TLV</th>
<th>OSHA - PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrocarbol</td>
<td>20 ppm TWA</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td>Carbinol</td>
<td>200 ppm TWA</td>
<td>250 ppm TWA</td>
</tr>
</tbody>
</table>

**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.”

#### 8.2 Engineering Controls:

8.2.1 Ventilation:
Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

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

8.4 Personal protective equipment

8.4.1 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).

8.4.2 Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique 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: Fluorinated rubber
Splash contact: Fluorinated rubber

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use. It should not be construed as offering an approval for any specific use scenario.

8.4.3 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).
8.4.4 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.

8.5 Protective Clothing Pictograms

Section 9 - Physical and Chemical Properties

9.1
Physical State: Liquid
Appearance: Various
Odor: Sharp, pungent
Vapor Pressure: 27.3 mmHg @ 20°C
Vapor Density (Air=1): >2.1
Specific Gravity (H₂O=1): 1.1-@ 68°F / 20°C
pH: 6.4
Water Solubility: slightly (or partially) miscible
Flash Point: 74°F, 23°C Close cup
Boiling Point: 149°F, 65°C
Lower Explosive Limits (vol % in air): 5%
Upper Explosive Limits (vol % in air): 36%
Freezing/Melting Point: Not Available
Viscosity: Not Available
Auto ignition Temperature: Not Available

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 Hazardous Decomposition Products: Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.
10.4 Conditions to Avoid: Avoid shock, heat, sparks open flames and other ignition sources

Section 11- Toxicological Information

12.1

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Results</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrocarbol</td>
<td>Oral LD50</td>
<td>Rat</td>
<td>940 mg/kg</td>
<td>Non Listed</td>
</tr>
<tr>
<td>Carbinol</td>
<td>Oral LD50</td>
<td>Rat</td>
<td>2131 mg/kg</td>
<td>None Listed</td>
</tr>
</tbody>
</table>

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

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

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

11.3 Aspiration Hazard: None
11.4 **Skin Corrosion/Irritation**: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

11.5 **Serious Eye Damage/Irritation**: Causes eye irritation.

11.6 **Specific Target Organ Toxicity (Single Exposure)**: Causes damage to organs

11.7 **Specific Target Organ Toxicity (Repeated Exposure)**: May cause damage to the following organs: Eyes, Kidney, Liver, Heart, Central nervous system.

11.8 **Signs and Symptoms**: Effects of overexposure can include: Carbinol may be fatal or cause blindness if swallowed. Effects may also include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed (fatigue). Continued exposure to high concentrations can result in vomiting, cardiac irregularities and sudden loss of consciousness.

12.2 **Carcinogenicity**:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrocarbol</td>
<td>Substance is possibly carcinogenic to humans</td>
<td>Confirmed animal with unknown relevance to humans</td>
<td>Substance is reasonably anticipated to be a human carcinogen</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbinol</td>
<td>Not listed</td>
<td>Confirmed Human Carcinogen</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### Section 12 - Ecological Information

12.1

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Results</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrocarbol</td>
<td>IC50 36 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td>Nitrocarbol</td>
<td>EC50 450 mg/l</td>
<td>Daphnia</td>
<td>24 hours</td>
</tr>
<tr>
<td>Nitrocarbol</td>
<td>LC50 460 mg/l</td>
<td>Fish</td>
<td>58 hours</td>
</tr>
<tr>
<td>Carbinol</td>
<td>LC50 29.4 mg/L</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>Carbinol</td>
<td>LC50 22,200 mg/L</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

12.2 **Toxicity**: This chemical is not regarded as toxic to aquatic organisms. However **DO NOT** discharge into a sewer or waterway.

12.3 **Persistence and degradability**: No data available

12.4 **Bioaccumulative potential**: No data available

12.5 **Mobility in soil**: No data available

12.6 **Results of PBT and vPvB assessment**: PBT/vPvB assessment not available

12.7 **Other adverse effects**: None
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.
14.1 DOT Transport Information

ID No.: UN 1992
Shipping Name: Flammable liquids, toxic, n.o.s. (Nitrocarbol, Carbinol)
Hazard Class: 3
Packing Group: II
Label: Flammable, Toxic
Placard: Flammable, Toxic
Passenger aircraft: Forbidden
Cargo aircraft: Quantity limitation: 60L
Special provisions: None

14.2 TDG Canada Transport Information

ID No.: UN 1992
Shipping Name: Flammable liquids, toxic, n.o.s. (Nitrocarbol, Carbinol)
Hazard Class: 3
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. (Nitrocarbol, carbinol)
Hazard Class: 3
Packing Group: II
Flash Point: 23 °C - closed cup
EmS Number: F-E, S-E
Label: Flammable, Toxic
Placard: Flammable, Toxic
1.4 ADR/RID Transport Information

ID No.: UN 1992
Shipping Name: Flammable liquids, toxic, n.o.s. (Nitrocarbol, Carbinol)
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. (Nitrocarbol, Carbinol)
Hazard Class: 3
Packing Group: II
Label: Flammable, Toxic
Placard: Flammable, Toxic

Section 15 - Regulatory Information

15.1 US Regulations:
TSCA: 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: None
SARA Community Right-to-Know Program: Yes
Clean Water Act: None
Clean Air Act: None
OSHA: All ingredients are covered by 1910.1200

15.2 State Regulations
California prop. 65: Nitrocarbol, Carbinol Cancer
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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 Canadian Regulation
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
Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC
(Including amendments) and take into account the intended product use.

Europe inventory:
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.
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16.3 CHEMTREC In country emergency dial numbers

- 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

16.4 SDS Preparation Date: 05/14/2015
Prepared by SJC Compliance Education, Inc
16516 El Camino Real suite 417
Houston, TX 77062