

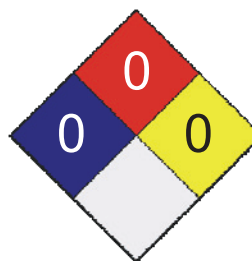
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Green Rhino Multipurpose Lubricant and Penetrant  
**CAS #** Mixture  
**Product use** Lubricant  
**Manufacturer** Green Rhino Division of C&D Communications Inc.  
57 Old Post Road No 2  
Greenwich, CT 06830  
Phone: 1-888-744-6645

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 0
Flammability	0
Physical Hazard	0
Personal Protection	A



## 2. Hazards Identification

**Emergency overview** CAUTION  
Contact with eyes may cause irritation.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** Liquid is mildly irritating to eyes.

**Skin** Not expected to be a primary skin irritant.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

**Target organs** Eyes.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Distillates (petroleum), light hydrotreated	64742-47-8	7 - 13
Distillates (petroleum), hydrotreated middle	64742-46-7	30 - 60
White mineral oil (petroleum)	8042-47-5	30 - 60
Naphtha (petroleum), hydrotreated heavy	64742-48-9	3 - 7
Naphtha (petroleum), light alkylate	64741-66-8	3 - 7

**Composition comments** Non hazardous by WHMIS Criteria.

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion**

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

**Notes to physician**

Symptoms may be delayed.

**General advice**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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## 5. Fire Fighting Measures

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**Flammable properties**

Not flammable by WHMIS/OSHA criteria.

**Extinguishing media****Suitable extinguishing media**

Carbon dioxide. Dry chemical. Foam.

**Unsuitable extinguishing media**

Not available

**Protection of firefighters****Specific hazards arising from the chemical**

Not available

**Protective equipment for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**

May include and are not limited to: Oxides of carbon.

**Explosion data****Sensitivity to mechanical impact**

Not available

**Sensitivity to static discharge**

Not available

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## 6. Accidental Release Measures

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**Personal precautions**

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Methods for containment**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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## 7. Handling and Storage

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**Handling**

Use good industrial hygiene practices in handling this material.

**Storage**

Keep out of reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Distillates (petroleum), hydrotreated middle	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Distillates (petroleum), light hydrotreated	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Naphtha (petroleum), hydrotreated heavy	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Naphtha (petroleum), light alkylate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
White mineral oil (petroleum)	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses with side shields.

#### Hand protection

Not normally required when used as directed. Protective gloves are recommended for prolonged or repeated exposure.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical & Chemical Properties

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<b>Appearance</b>	Liquid.
<b>Color</b>	Clear
<b>Form</b>	Liquid
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	Not available
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	268.33 - 307.77 °C (515 - 586 °F)
<b>Flash point</b>	116.11 °C (241 °F) Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available

Vapor pressure	< 0.1 mmHg @ 70°F (21.1°C)
Vapor density	8.1
Specific gravity	0.81 @ 60°F (15.6°C)
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	220.00 °C (428 °F)
VOC (Weight %)	0
Viscosity	38.7 SUS @ 100°F (37.8°C)
Percent volatile	0

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.
<b>Possibility of hazardous reactions</b>	Not available

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Distillates (petroleum), hydrotreated middle	4.6 mg/l/4h rat
Distillates (petroleum), light hydrotreated	5.2 mg/l/4h rat
Naphtha (petroleum), hydrotreated heavy	Not available
Naphtha (petroleum), light alkylate	5.04 mg/l/4h rat
White mineral oil (petroleum)	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Distillates (petroleum), hydrotreated middle	7400 mg/kg rat
Distillates (petroleum), light hydrotreated	5000 mg/kg rat
Naphtha (petroleum), hydrotreated heavy	5000 mg/kg rat
Naphtha (petroleum), light alkylate	7000 mg/kg rat
White mineral oil (petroleum)	5000 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	Liquid is mildly irritating to eyes.
<b>Skin</b>	Not expected to be a primary skin irritant.
<b>Inhalation</b>	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.

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## 12. Ecological Information

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### Ecotoxicity

This product has not been tested.

#### Ecotoxicity - Freshwater Algae Data

Naphtha (petroleum), light alkylate 64741-66-8 72 Hr EC50 Selenastrum capricornutum: 30000 mg/L

#### Ecotoxicity - Freshwater Fish Species Data

Distillates (petroleum), hydrotreated middle 64742-46-7 96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]

Distillates (petroleum), light hydrotreated 64742-47-8 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]

Naphtha (petroleum), hydrotreated heavy 64742-48-9 96 Hr LC50 Pimephales promelas: 2200 mg/L

White mineral oil (petroleum) 8042-47-5 96 Hr LC50 Lepomis macrochirus: >10000 mg/L

#### Ecotoxicity - Water Flea Data

Distillates (petroleum), light hydrotreated 64742-47-8 96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L

Naphtha (petroleum), hydrotreated heavy 64742-48-9 96 Hr LC50 Chaetogammarus marinus: 2.6 mg/L

Naphtha (petroleum), light alkylate 64741-66-8 48 Hr LC50 Mysisidopsis bahia: 2 mg/L

**Environmental effects** Not available

**Aquatic toxicity** Not available

**Persistence / degradability** Not available

**Bioaccumulation / accumulation** Not available

**Partition coefficient** Not available

**Mobility in environmental media** Not available

**Chemical fate information** Not available

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## 13. Disposal Considerations

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**Waste codes** Not available

**Disposal instructions** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport Information

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### Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG)

Not regulated as dangerous goods.

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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US Federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

### CERCLA (Superfund) reportable quantity

None

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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**Safe Drinking Water Act (SDWA)** Not available

**Drug Enforcement Agency (DEA)** Not available

**Food and Drug Administration (FDA)** Not available

**WHMIS status** Not Controlled

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**Inventory name**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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**16. Other Information**

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**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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