

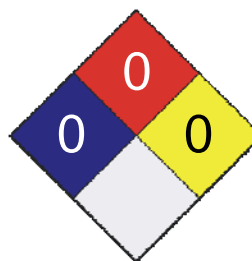
MATERIAL SAFETY DATA SHEET

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.

5. Fire Fighting Measures

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

6. Accidental Release Measures

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.

7. Handling and Storage

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.

8. Exposure Controls / Personal Protection

Exposure limits

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

9. Physical & Chemical Properties

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

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

Eye	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.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

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

13. Disposal Considerations

Waste codes Not available

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG)

Not regulated as dangerous goods.

15. Regulatory Information

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

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

Country(s) or region	Inventory name	On inventory (yes/no)*
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)

16. Other Information

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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