



GREEN LIGHTNING

Vehicle and Pressure Washer Detergent

Green Lightning is a high pressure detergent that works great on trucks, construction equipment and other vehicle surfaces, including polished aluminum. **Green Lightning** is a “green” product that leaves vehicles bright and shiny while protecting the environment.

FEATURES & BENEFITS

- **POWERFUL CLEANING ACTION**
Quickly removes dirt and oily soil from both painted and unpainted surfaces
- **METAL SAFE**
Will not harm bare metal surfaces
- **HARD WATER TOLERANT**
Provides high performance cleaning action in both hard and soft water
- **VERSATILE**
Can be used in one or two step cleaning applications
- **FREE RINSING**
Leaves no residue after rinsing. Surface dries spot free

DIRECTIONS

BRUSHLESS WASH

Dilution Rate: Mix **Green Lightning** 15:1 to 40:1 in water or titrate to 16-24 drops using a Ver-tech Labs titration kit for removal of heavy soil or road film without brushing. Note if using a brush for light cleaning, mix 1 part **Green Lightning** with up to 75 parts water. Dilution levels will vary with soil level.

Temperature: **Green Lightning** will remove soil at all temperatures. **However higher temperatures will greatly improve performance.**

Pressure: Apply **Green Lightning** to vehicles with high or low pressure. **High pressure will enhance product performance.**

For Best Results: Apply at high temperatures (140° - 160°F) and high pressure (above 600 psi), to a dry surface. Always rinse with high-pressure water.

1. Apply dilutions to surface to be cleaned, working from bottom to top to avoid streaking. **Green Lightning** may be applied to as large a surface area as desired, being careful not to allow **Green Lightning** to dry on surface.
2. Rinse thoroughly with high-pressure water, working from top to bottom.
3. Hold pressure nozzle 12” from vehicle surface.

NOTE: See reverse side for MSDS information and General Cautions for Use

Visit our website at www.ver-techlabs.com

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION Identity (As Used on Label and List): Green Lightning (GRE100) Product Class: Water-based degreaser Emergency Telephone Number: 800-535-5053 (INFOTRAC) Telephone Number for Information: 763-509-7937 Manufacturer's Name and Address: Ver-tech Labs 6801 Bleck Drive Rockford, MN 55373	SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point: Approximately 212°F (100°C) pH: 12 - 14 Specific Gravity (H2O) = 1: 1.10 % Volatile: Vapor Density (Air = 1): N. Av. Odor Threshold: N. Av. Evaporation Rate (Butyl Acetate = 1): N. Av. Oil/Water Distribution Coefficient: N. Av. Solubility in Water: Complete Vapor Pressure (MM HG): N. Av. Melting Point: N. Ap.												
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS Hazardous Components (Specific Chemical Identity): <table border="1"><thead><tr><th>Chemical</th><th>Common Name(s)</th></tr></thead><tbody><tr><td>A</td><td>Sodium Metasilicate CAS #9004-82-4</td></tr></tbody></table>	Chemical	Common Name(s)	A	Sodium Metasilicate CAS #9004-82-4	SECTION X - STABILITY AND REACTIVITY Stability: Unstable: Stable: X Conditions to Avoid: N. Ap. Incompatibility (materials to avoid): N. Av. Hazardous Decomposition or By-products: N. Av. Hazardous Polymerization: May occur: Will not occur: X Conditions to Avoid: N. Ap.								
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A	Sodium Metasilicate CAS #9004-82-4												
SECTION III - HAZARDS IDENTIFICATION Emergency Overview Appearance and Odor: Bright Green liquid, slight aroma. Primary Hazards: Irritant Potential Health Hazards Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X Eye: May cause chemical burns on contact. Skin: May cause chemical burns on contact. Ingestion: May be harmful if swallowed. Inhalation: No hazardous vapors. Signs and Symptoms of Exposure: Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Target Organ (s): Eyes, skin and mucous membranes. Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av.	SECTION XI - TOXICOLOGICAL INFORMATION <table border="1"><thead><tr><th>Chemical</th><th>OSHA PEL</th><th>ACGIH TLV</th><th>Recom.</th><th>LD50</th><th>LC50</th></tr></thead><tbody><tr><td>A</td><td>2mg/m3</td><td>2mg/m3</td><td>N. Av.</td><td>800 mg/kg (rat, oral)</td><td>N. Av.</td></tr></tbody></table> Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av.	Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50	A	2mg/m3	2mg/m3	N. Av.	800 mg/kg (rat, oral)	N. Av.
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A	2mg/m3	2mg/m3	N. Av.	800 mg/kg (rat, oral)	N. Av.								
SECTION IV - FIRST AID MEASURES Emergency and First Aid Procedures: For Eye Contact: Immediately flush eyes with sanitary eye wash solution or running water for at least 15 minutes. Obtain medical attention. Continue to flush eyes until medical attention arrives. If Swallowed: Do not induce vomiting. Drink water, immediately call a physician. Never give anything by mouth to a unconscious person. For Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Sources Used: Raw material data, general toxicology from the trade for similar products.	SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av.												
SECTION V - FIRE FIGHTING MEASURES Flammability: No Autoignition Temperature: N. Ap. Flash Point (method used): None Flammable Limits: N. Ap. LEL UEL Extinguishing Media: N. Ap. <table border="1"><tr><td>Water?</td><td>Foam?</td><td>Water Fog?</td></tr><tr><td>Alcohol Foam?</td><td>CO2?</td><td>Dry Chemical?</td></tr><tr><td>Vaporizing Liquid?</td><td>Other?</td><td></td></tr></table> Special Fire Fighting Procedures: N. Ap. Unusual Fire and Explosion Hazards: N. Av. TDG Flammability Classification: Non-flammable Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: None	Water?	Foam?	Water Fog?	Alcohol Foam?	CO2?	Dry Chemical?	Vaporizing Liquid?	Other?		SECTION XIII - DISPOSAL CONSIDERATIONS Waste Disposal Method: Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations. RCRA Hazard Class: D002, characteristic corrosive.			
Water?	Foam?	Water Fog?											
Alcohol Foam?	CO2?	Dry Chemical?											
Vaporizing Liquid?	Other?												
SECTION VI - ACCIDENTAL RELEASE MEASURES Steps to be taken in Case Material is Released or Spilled: Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.	SECTION XIV - TRANSPORT INFORMATION Shipping Classification: Cleaning compound NOI UN Number: Packing Group:												
SECTION VII - HANDLING AND STORAGE Precautions to be taken in Handling and Storing: Normal care in handling and storage. Other Precautions: Keep out of reach of children. Keep from freezing.	SECTION XV - PREPARATION DATA Prepared By: Health and Safety Department Telephone Number: 763-509-7937 Date: 9-8-2009												
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required Ventilation: Local Exhaust: Not required Special: Not required Mechanical (General): As required to keep vapor levels below TLV & PEL, listed in Section XI. Other: Not required	SECTION XVI - REGULATORY INFORMATION US Federal Regulations TSCA Status: All ingredients listed. CERCLA Reportable Quality: N. Av. SARA Title III Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: Immediate health, chronic health Section 313 Toxic Chemicals: None												
Protective Gloves: Natural rubber or synthetic. Eye Protection: Approved safety goggles or shield. Footwear: Rubber footwear. Other Protective Clothing or Equipment: Not required Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.	SECTION XVII - OTHER INFORMATION None N. Ap. - Not Applicable; N. Av. - Not Available NFPA SYSTEM <u> 2 </u> A. Health Hazard <u> 0 </u> A. Fire Hazard <u> 0 </u> A. Reactivity Hazard THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.												