

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 (140º - 160ºF) 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 thouroughly 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

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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 II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)
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 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 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.
Water? **Foam?** **Water Fog?**
Alcohol Foam? **CO_2?** **Dry Chemical?**
Vaporizing Liquid? **Other?**
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

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 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 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

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 IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 212°F (100°C) **pH:** 12 - 14
Specific Gravity (H20) = 1: 1.10 **% Volatile:**
Vapor Density (Air = 1): N. Av. **Odor Threshold:** N. Av.
Evaporation Rate (Butyl Acetate = 1): N. Av. **Oil/Water Distribution**
Solubility in Water: Complete **Coefficient:** N. Av.
Vapor Pressure (MM HG): N. Av.
Melting Point: N. Ap.

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.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	2mg/m3	2mg/m3	N. Av.	800 mg/kg (rat, oral)	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: No
Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.
Chemical Fate Information: N. Av.

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 sewered, depending on the materials and/or contaminates being cleaned as well as state, federal and local sewer commission regulations.
RCRA Hazard Class: DOO2, characteristic corrosive.

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: Cleaning compound NOI
UN Number:
Packing Group:

SECTION XV - PREPARATION DATA

Prepared By: Health and Safety Department
Telephone Number: 763-509-7937
Date: 9-8-2009

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 Chemic als: None

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N.Av. - Not Available

NFPA SYSTEM

_2_ A. Health Hazard _0_ A. Fire Hazard _0_ A. Reactivity Hazard

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