



# SAFETY DATA SHEET



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: VECTOR

Application: Liquid Fleet Washing Compound

Product Number: 2063

UN-Number: N/A

Manufacturer Information Sunrise Environmental Scientific  
Remit: PO Box 10207 Reno, NV 89510  
Physical: 1175 Industrial Way Sparks, NV 89431  
Phone Number: 775-359-8494 or 800-648-1153

Emergency Phone No.  
Chemtrec: 1-800-424-9300

Pages: 3

Web: SUNRISENV.COM

## 2. HAZARDS IDENTIFICATION

### Emergency Overview:

Signal Word: WARNING

Keep out of reach of children.

### Potential Health Effects:

Inhalation: Excessive inhalation of vapors may cause irritation of the respiratory tract, CNS depression, nausea, vomiting, dizziness and/or headache.

Skin Contact: Skin contact may cause irritation and/or itchy sensation of skin.

Ingestion: May cause serious health effects including, vomiting, nausea and/or severe gastrointestinal burn.



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	CAS #	Component WT%	PEL	TLV	IDLH
Sodium Hydroxide	1310-73-2	1%≤10%	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	200 mg/m <sup>3</sup>
Potassium Hydroxide	1310-58-3	1%≤10%	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	N/A
Sodium Metasilicate	6834-92-0	1%≤10%	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N/A

Comments: A coupling structure system proprietary formula, no TLV, OSHA values established. Use protective equipment.

## 4. FIRST AID MEASURES

Inhalation: Move to an uncontaminated area. Call physician immediately.

Skin Contact: Flush with water, immediately remove all contaminated clothing.

Ingestion: Do not induce vomiting, drink a large quantity of water and seek medical care. Treat as caustic ingestion.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue for at least 15 minutes, seek physician help immediately.

Additional Information: None

## 5. FIRE FIGHTING MEASURES

Flash Point: Not flammable.

Upper Flammable Limit (UEL): N/A

Lower Flammable Limit (LEL): N/A

Auto Ignition: N/D

Rate of Burning: N/D

General Fire Hazards: Possibility of skin and eye burns from fumes, steam or from spray. Use cautions appropriate to strong alkaline liquid.

Hazardous Combustion Product: May produce Carbon Monoxide or other toxic by introducing product in fire.

Extinguishing Media: Foam, Co2 and/or dry chemicals.

Fire Fighting Equipment/Instructions: Use SCBA equipment with full face piece operated in the positive pressure mode.

NFPA Rating: (Flammability 0) (Health 1) (Reactivity 1)

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid skin contact. Use chemical resistant gloves, safety goggles or face shield and protective clothing. Do not apply above the eye level. When using strong alkaline use extreme caution and read the label completely before use.

**Environmental Precautions:** Isolate and evacuate the spilled area. Prevent additional further leakage or spillage, if safe to do so.

**Method for Cleanup & Containment:** Wear appropriate protective equipment and clothing during the clean-up. By utilizing personal protective equipment (PPE) dilute with water fog, neutralize with Citric Acid to acceptable pH level. Isolate spill and Use non-combustible material like vermiculite, sand, clay or other absorbent material to absorb the spilled liquid.

**Additional Information:** Follow local and federal regulations with regard to chemical spills

## 7. HANDLING AND STORAGE

**Handling Procedure:** Avoid breathing mist or vapors. Avoid prolonged contact with skin. Avoid contact with eye. Wear suitable PPE.

Wash hands thoroughly after handling the product.

**Storage Procedures:** Keep in away from reactive chemicals in a cool, well ventilated area.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Occupational Exposure Limits:**

**ACGIH Components:** Use ventilation adequate to maintain TLV.

**OSHA Components:** No

**Engineering Measures:** Use fan in confined area. Use local exhaust ventilation.

**Personal Protective Equipment (PPE):** Utilize suitable protective clothing, and other appropriate PPEs to protect eyes and hands.

**Hygiene Recommendations:** Use caution appropriate to strong alkaline liquid utilizing goggles, face shield, chemical resistant gloves boots & apron.

Consider the effect of exposure potentials, handling practices, chemical concentration and ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Orange liquid

**Physical State:** Liquid

**Vapor Pressure:** N/A

**Boiling Point:** 201°F

**Solubility (H<sub>2</sub>O):** Soluble in water

**Freezing Point:** N/D

**Odor:** Musty ethereal aroma

**pH:** N/D

**Density:** N/D

**Vapor Density:** N/A

**Melting Point:** N/D

**Specific Gravity:** 1.10

**VOC:** 1.3%

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Hot storage.

**Incompatibility:** Oxidizing agents, acids, strong chemicals and metals.

**Hazardous Decomposition:** When heated to decomposition Carbon Monoxide, irritating fumes in fire.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Route of Entry:** Inhalation, skin ingestion and eyes.

**Acute Chronic Toxicity Data:** Inhalation may cause lung irritation and CNS damage. Eye exposure may cause irritation, burning, irreversible damage with impairment of vision. Skin contact may cause irritation and burns. Ingestion can cause severe burns to entire gastrointestinal tract, including stomach and intestines.

**NTP:** No

**IARC Monographs:** No

**Carcinogenicity:** No component in this product is a carcinogenic.

**Chronic Toxicity:** Dermatitis in sensitive individuals.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: N/D

Persistence and Degradability: N/D

Bioaccumulative potential: N/D

Mobility in Soil: N/D

Other Adverse effects: N/D

## 13. DISPOSAL CONSIDERATIONS

Disposal Instructions: Follow local and federal disposal regulations for corrosive material. It is recommended to pH neutralize with Citric Acid and be solidified with stabilizing absorbent material before disposal.

## 14. TRANSPORTATION INFORMATION

US DOT Information: LIQUID CLEANER CLASS 55

Marine Pollutant: Yes

Shipping Name: Vector

Required Label: N/A

## 15. REGULATORY INFORMATION

Classification: Irritant

Hazard Symbol: Exclamation Point



US Federal Regulations:

OSHA'S Hazard Communication Rule, 29 CFR 1910.1200-Is a moderate skin irritant, moderate eye irritant and a skin sensitizer.

SARA Title III-This product does contain chemicals component with known CAS number that exceed the threshold reporting levels established by SARA Title III, section 313. 2 Butoxy Ethanol  $\leq 10\%$  and Ethylene Glycol  $\leq 10\%$ , Diethylene Glycol  $\leq 10\%$

State Regulations:

California Prop. 65

This product does not contain any chemicals known to state of California to cause cancer, birth defects, or any other reproductive harm.

## 16. OTHER INFORMATION

SDS History

Date Prepared: 10/01/2013

Revision Date: 01/29/2015

Contact Information: Sunrise Environmental Scientific  
Remit: PO Box 10207 Reno, NV 89510  
Physical: 1175 Industrial Way Sparks, NV 89431  
Phone Number: 775-359-8494 or 800-648-1153  
Web: SUNRISENV.COM

This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subjected to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein and neither the provider nor the manufacturer are liable to any party for any damages or nature. Including direct, special or consequential damages arising out of or in connection with accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions. The recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.