

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** HIGHSI-011-BULK  
**Product Name:** Green Power  
**Company Name:** High Sierra  
P. O. Box 848  
Chippewa Falls, WI 54729  
**Phone Number:** +1 (715)723-4915  
**Emergency Contact:** CHEMTREC +1 (800)424-9300

## 2. HAZARDS IDENTIFICATION

**Acute Toxicity:** Oral, Category 4  
**Skin Corrosion/Irritation,** Category 3  
**Serious Eye Damage/Eye Irritation,** Category 2A



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H315 - Causes skin irritation. H320 - Causes eye irritation.

**GHS Precaution Phrases:** P102 - Keep out of reach of children.  
P103 - Read label before use.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P315 - Get immediate medical advice/attention.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P342 - If experiencing respiratory symptoms: P313 - Get medical advice/attention.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/container in accordance to local, state and federal regulations.

**Potential Health Effects (Acute and Chronic):**

**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation.

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes eye burns. May cause chemical conjunctivitis and corneal damage. Causes eye irritation. Causes redness and pain.

**Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
6834-92-0	Sodium metasilicate	< 5.0 %
NA	Surfactant	< 5.0 %
1310-73-2	Sodium hydroxide	< 5.0 %
111-76-2	Glycol Ether EB	<10.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. Get medical aid immediately.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water. Wash clothing before reuse. Consult a physician.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical aid immediately.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
<b>Flammable Properties and Hazards:</b>	No data available.
	No data available.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter storm drains, storm sewers, watersheds or water systems unless authorized.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

# SAFETY DATA SHEET

## Green Power

Page: 3 of 7  
Printed: 06/19/2015  
Revision: 12/22/2014

### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapor or mist. Keep container tightly closed. Wash thoroughly after handling. Keep away from heat, sparks and flame.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container closed when not in use. Store in a tightly closed container. Keep away from sources of ignition.
<b>Other Precautions:</b>	Handle in accordance with good industrial hygiene and safety practice.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
6834-92-0	Sodium metasilicate	No data.	No data.	No data.
NA	Surfactant	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
111-76-2	Glycol Ether EB	PEL: 50 ppm	TLV: 20 ppm	No data.
<b>Respiratory Equipment (Specify Type):</b>	If airborne concentrations pose a health hazard or become irritating, use a NIOSH/MSHA-approved respirator, in the positive pressure mode.			
<b>Eye Protection:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid		
Appearance and Odor:	Liquid. Yellow. Transparent.		
pH:	12.01		
Melting Point:	No data.		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.		UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		

# SAFETY DATA SHEET

## Green Power

Page: 4 of 7

Printed: 06/19/2015

Revision: 12/22/2014

**Specific Gravity (Water = 1):** 1.021 - 1.051**Solubility in Water:** No data.**Octanol/Water Partition Coefficient:** No data.**Autoignition Pt:** No data.**Decomposition Temperature:** No data.**Viscosity:** No data.

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]**Conditions To Avoid - Instability:** Incompatible materials, ignition sources.**Incompatibility - Materials To Avoid:** Strong acids, Lead. Tin/tin oxides, Zinc, Acids, Strong oxidizing agents, Strong bases, aluminum.**Hazardous Decomposition or Byproducts:** formed under fire conditions. Sodium oxides, silicon oxides. hydrogen gas, Carbon monoxide.**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]**Conditions To Avoid - Hazardous Reactions:** No data available.

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: No information found.  
Teratogenicity: No information available.  
Reproductive Effects: No information found.  
Mutagenicity: No information found.  
Neurotoxicity: No information found.**Irritation or Corrosion:** Other Studies: CAS# 111-76-2:  
Acute toxicity, LC50, Inhalation, Rat, 450.0 ppm, 4 H.  
Acute toxicity, LD50, Oral, Rat, 470.0 mg/kg  
Acute toxicity, LD50, Skin, Rabbit, 220.0 mg/kgOther Studies: CAS# 111-76-2:  
Standard Draize Test, Eyes, Species: Rabbit, 100.0 mg, 24 HOther Studies: CAS# 1310-73-2  
Standard Draize Test, Eyes, Species: Rabbit, 400.0 ugOther Studies: CAS# 1310-73-2  
Acute toxicity, LD50, Oral, Mouse, 5800mg/kg. Other Studies: CAS# 6834-92-0:  
Acute toxicity, LD50, Oral, Rat, 1000 mg/kgOther Studies: CAS# 6834-92-0:  
Standard Draize Test, Skin, Species: Rabbit, 250.0 mg, 24H**Carcinogenicity/Other Information:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

# SAFETY DATA SHEET

## Green Power

Page: 5 of 7

Printed: 06/19/2015

Revision: 12/22/2014

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 111-76-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.

California: Not listed.

NTP: Not listed.

IARC: Not listed.

### Carcinogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
6834-92-0	Sodium metasilicate	n.a.	n.a.	n.a.	n.a.
NA	Surfactant	n.a.	n.a.	n.a.	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.
111-76-2	Glycol Ether EB	n.a.	3	A3	n.a.

## 12. ECOLOGICAL INFORMATION

### General Ecological Information:

Environmental: TERRESTRIAL FATE: Based on a recommended classification scheme, an estimated Koc value of 67,, determined from an experimental log Kow and a recommended regression-derived equation, indicates that ethylene glycol mono-n-butyl ether is expected to have high mobility in soil. An estimated BCF value of 2.5 was calculated for ethylene glycol mono-n-butyl ether, using an experimental log Kow of 0.83 and a recommended regression-derived equation. According to a recommended classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low.

Physical: No information found.

Other: An estimated BCF value of 2.5,, from an experimental log Kow, suggests that ethylene glycol mono-n-butyl ether bioconcentration in aquatic organisms will be low, according to a recommended classification scheme.

### Results of PBT and vPvB assessment:

Other Studies: CAS# 1310-73-2:

LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000 ug/L, 48H, Mortality

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H, Mortality

LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H, Mortality

LC50, Guppy (Poecilia reticulata)}, young organism(s), 196.0 mg/L, 96H, Mortality

Other Studies: CAS# 111-76-2:

LC50, Water Flea (Daphnia magna), 1720 mg/l, 24 H, Intoxication

LC50, Common Shrimp, Sand Shrimp (Crangon crangon), 775000 ug/l, 96 H, Mortality

LC50, Amphipod (Chaetogammarus marinus), young organism(s), 1000 mg/l, 24 H, Mortality

LC50, Carp (Leuciscus idus ssp. melanotus), 1575 mg/l, 48 H, Mortality

Effective concentration to 0% of test organisms, Blue-Green Algae (Microcystis aeruginosa), 156000 ug/L, Population

### Persistence and Degradability:

No data available.

### Bioaccumulative Potential:

No data available.

# SAFETY DATA SHEET

## Green Power

Page: 6 of 7  
Printed: 06/19/2015  
Revision: 12/22/2014

**Mobility in Soil:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Observe all federal, state, and local environmental regulations.  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.  
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.  
Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
Contact a licensed professional waste disposal service to dispose of this material.

### 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

### 15. REGULATORY INFORMATION

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
6834-92-0	Sodium metasilicate	No	No	No
NA	Surfactant	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
111-76-2	Glycol Ether EB	No	No	Yes-Cat. N230

#### CAS # Hazardous Components (Chemical Name)

#### Other US EPA or State Lists

6834-92-0	Sodium metasilicate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
1310-73-2	Sodium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E
111-76-2	Glycol Ether EB	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 0275; NY Part 597: No; PA HSL: Yes - 1

# SAFETY DATA SHEET

## Green Power

Page: 7 of 7

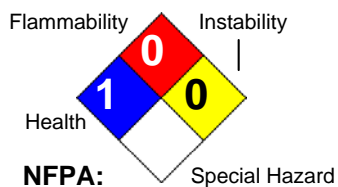
Printed: 06/19/2015

Revision: 12/22/2014

### 16. OTHER INFORMATION

Revision Date: 12/22/2014

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While High Sierra believes the statements set forth herein are accurate as of the date hereof, High Sierra makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.