

**SAFETY DATA SHEET****SOLAR POWER****1. Product and Company Identification**

**Product Code:** 4530  
**Product Name:** SOLAR POWER  
**Revision:** 07/06/2017  
**Supersedes Revision:** 01/11/2016

**Manufacturer Information:**

**Company Name:** PDQ Manufacturing, Inc.  
 201 Victory Circle  
**Phone Number:** (706)636-1848

Ellijay, GA 30540

**Web site address:** www.pdqonline.com

**Emergency Contact:** Chemtrec, Reference: CCN203605 (800)424-9300  
**Information:** info@pdqonline.com (706)636-1848

**Supplier Name and Address:**

**Company Name:** \_\_\_\_\_ **Phone Number:** \_\_\_\_\_

**2. Hazards Identification**

**Corrosive To Metals, Category 1**

**Skin Corrosion/Irritation, Category 1A**

**Serious Eye Damage/Eye Irritation, Category 1**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H290 - May be corrosive to metals.  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage.

**GHS Precaution Phrases:** P234 - Keep only in original container.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection.

**GHS Response Phrases:** P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P321 - Specific treatment see appropriate section of the SDS.  
 P363 - Wash contaminated clothing before reuse.  
 P390 - Absorb spillage to prevent material damage.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
 P501 - Dispose of contents/container to trash after rinsing container.

**SAFETY DATA SHEET****SOLAR POWER****Potential Health Effects  
(Acute and Chronic):**

<b>Inhalation:</b>	Causes chemical burns to the respiratory tract. May be harmful if inhaled.
<b>Skin Contact:</b>	Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
<b>Eye Contact:</b>	Causes eye burns. May cause chemical conjunctivitis and corneal damage.
<b>Ingestion:</b>	May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock.

**3. Composition/Information on Ingredients**

<b>CAS #</b>	<b>Hazardous Components (Chemical Name)</b>	<b>Concentration</b>
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	30.0 -50.0 %
6419-19-8	Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}	1.0 -5.0 %

**4. First Aid Measures****Emergency and First Aid****Procedures:**

<b>In Case of Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing becomes difficult, call a physician.
<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 clothing before reuse. Consult a physician.
<b>In Case of Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.
<b>In Case of Ingestion:</b>	Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**5. Fire Fighting Measures**

<b>Flash Pt:</b>	NP Method Used: Estimate
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant 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. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with metals may evolve flammable hydrogen gas. Wear self contained breathing apparatus for fire fighting if necessary. Material will not burn.
<b>Flammable Properties and Hazards:</b>	No data available.

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## 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	<p>Use proper personal protective equipment as indicated in Section 8.</p> <p>Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section.</p> <p>Personal precautions.</p> <p>Use personal protective equipment. Ensure adequate ventilation.</p> <p>Environmental precautions.</p> <p>Do not let product enter drains.</p> <p>Methods for cleaning up.</p> <p>Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.</p>
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## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	<p>Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.</p> <p>Normal measures for preventive fire protection. No special handling procedures are required.</p>
<b>Precautions To Be Taken in Storing:</b>	<p>Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Keep away from acids. Store protected from moisture. Store in a cool, dry place. Hygroscopic. No special storage requirements.</p>

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m <sup>3</sup>	CEIL: 2 mg/m <sup>3</sup>	No data.
6419-19-8	Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}	No data.	No data.	No data.
<b>Respiratory Equipment (Specify Type):</b>	Respirator protection is not normally required.			
<b>Eye Protection:</b>	Wear chemical splash goggles.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. There are no special ventilation requirements.			
<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.			

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## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Opaque, viscous, fluorescent yellow liquid Surfactant odor.	
<b>Melting Point:</b>	215.00 C	
<b>Boiling Point:</b>	100.00 C	
<b>Autoignition Pt:</b>	No data.	
<b>Flash Pt:</b>	NP Method Used: Estimate	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Specific Gravity (Water = 1):</b>	~ 1.4	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Evaporation Rate:</b>	No data.	
<b>Solubility in Water:</b>	Complete	
<b>Viscosity:</b>	High	
<b>pH:</b>	> 12.5	
<b>Percent Volatile:</b>	No data.	

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds.
<b>Incompatibility - Materials To Avoid:</b>	Sulfur oxides. Metals. Acids, Aluminum, Zinc, gelatin, nitromethane, leather, flammable liquids, organic halogens.
<b>Hazardous Decomposition or Byproducts:</b>	Toxic fumes of sodium oxide.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

## 11. Toxicological Information

**Toxicological Information:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	n.a.	n.a.	n.a.	n.a.
6419-19-8	Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

No data available.

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### 13. Disposal Considerations

**Waste Disposal Method:** 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.

RCRA P-Series: None listed.  
RCRA U-Series: None listed.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging.  
Dispose of as unused product.

### 14. Transport Information

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3266

**Packing Group:** II



### 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)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes 1000 LB	No
6419-19-8	Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
6419-19-8	Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

### 16. Other Information

**Revision Date:** 07/06/2017  
**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

HEALTH	2
FLAMMABILITY	0
REACTIVITY	2
PPE	C

**HMIS:**

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named

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product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.