

**SAFETY DATA SHEET****RAVAGE****1. Product and Company Identification**

**Product Code:** 4956  
**Product Name:** RAVAGE  
**Revision:** 04/19/2019  
**Supersedes Revision:** 02/21/2015

**Manufacturer Information:**

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

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:** \_\_\_\_\_  
 \_\_\_\_\_  
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**2. Hazards Identification****Skin Corrosion/Irritation, Category 1A**

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

**GHS Hazard Phrases:** H314 - Causes severe skin burns and eye damage.

**GHS Precautionary Phrases:** P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves and 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 on this label.  
 P363 - Wash contaminated clothing before reuse.

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

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

**Inhalation:** Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema.

**Skin Contact:** Causes skin burns.

**Eye Contact:** Causes severe eye burns. Causes redness and pain.

**Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract.

## RAVAGE

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide {Caustic potash}	5.0 -15.0 %
1643-20-5	Dodecyldimethylamine oxide	< 2.0 %
68921-24-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C6-12-alkyl ethers, phosphates	< 2.0 %
25265-71-8	Propanol, Oxybis- {Dipropylene glycol (not 313)}	1.0 -5.0 %

## 4. First Aid Measures

## Emergency and First Aid

## Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. Consult 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. Destroy contaminated shoes. 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. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.
<b>In Case of Ingestion:</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
<b>Note to Physician:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	No data. Method Used: Estimate
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	NA
<b>Suitable Extinguishing Media:</b>	Use extinguishing media appropriate to surrounding fire conditions. 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. 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: Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Do not expose spill to water.</p> <p>Personal precautions.</p> <p>Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.</p> <p>Environmental precautions.</p> <p>Do not let product enter drains.</p> <p>Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Methods for cleaning up.</p> <p>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 breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Discard contaminated shoes. Keep from contact with moist air and steam. Avoid formation of dust and aerosols.</p> <p>Normal measures for preventive fire protection.</p>
<b>Precautions To Be Taken in Storing:</b>	<p>Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.</p>

**8. Exposure Controls/Personal Protection**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide {Caustic potash}	No data.	CEIL: 2 mg/m <sup>3</sup>	No data.
1643-20-5	Dodecyltrimethylamine oxide	No data.	No data.	No data.
68921-24-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C6-12-alkyl ethers, phosphates	No data.	No data.	No data.
25265-71-8	Propanol, Oxybis- {Dipropylene glycol (not 313)}	No data.	No data.	No data.
<b>Respiratory Equipment (Specify Type):</b>	Respirator protection is not normally required.			
<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. Safety glasses.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Chemical resistant apron.			
<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.			

## RAVAGE

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Clear, light tan liquid Surfactant odor.		
<b>Melting Point:</b>	360.00 C		
<b>Boiling Point:</b>	90.00 C - 100.00 C		
<b>Autoignition Pt:</b>	NA		
<b>Flash Pt:</b>	No data. Method Used: Estimate		
<b>Explosive Limits:</b>	LEL: No data.		UEL: No data.
<b>Specific Gravity (Water = 1):</b>	~ 1.1		
<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>	Thin		
<b>pH:</b>	> 12.5		
<b>Percent Volatile:</b>	No data.		

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Instability:</b>	No data available.	
<b>Incompatibility - Materials To Avoid:</b>	Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds.	
<b>Hazardous Decomposition or Byproducts:</b>	Oxides of potassium, hydrogen gas. formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).	
<b>Possibility of Hazardous Reactions:</b>	Will occur <input type="checkbox"/>	Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.	

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## 11. Toxicological Information

**Toxicological Information:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-58-3	Potassium hydroxide {Caustic potash}	n.a.	n.a.	n.a.	n.a.
1643-20-5	Dodecyldimethylamine oxide	n.a.	n.a.	n.a.	n.a.
68921-24-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C6-12-alkyl ethers, phosphates	n.a.	n.a.	n.a.	n.a.
25265-71-8	Propanol, Oxybis- {Dipropylene glycol (not 313)}	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

No data available.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

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

## 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. Product.  
Offer surplus and non-recyclable solutions to a licensed disposal company. 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. Observe all federal, state, and local environmental regulations.

## 14. Transport Information

**LAND TRANSPORT (US DOT):**

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

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3266

**Packing Group:** II



## SAFETY DATA SHEET

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## 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)
1310-58-3	Potassium hydroxide {Caustic potash}	No	Yes 1000 LB	No
1643-20-5	Dodecyldimethylamine oxide	No	No	No
68921-24-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C6-12-alkyl ethers, phosphates	No	No	No
25265-71-8	Propanol, Oxybis- {Dipropylene glycol (not 313)}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-58-3	Potassium hydroxide {Caustic potash}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
1643-20-5	Dodecyldimethylamine oxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
68921-24-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C6-12-alkyl ethers, phosphates	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
25265-71-8	Propanol, Oxybis- {Dipropylene glycol (not 313)}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR, 8D TERM; CA PROP.65: No

## 16. Other Information

Revision Date: 04/19/2019  
Preparer Name: Regulatory Affairs

Hazard Rating System:

HEALTH		2
FLAMMABILITY		0
REACTIVITY		1
PPE		C

HMIS:

Additional Information About This Product: No data available.

This Product:

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 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.