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Version 2

## 1. IDENTIFICATION

## Product Name

SmartWash® R21

## Supplier Name and Address

Whiting Systems, Inc.  
9000 Highway 5 North Alexander, AR 72002  
800-542-9031

## Emergency Telephone

INFOTRAC 352-323-3500 (International)  
800-535-5053 (North America)

Recommended Use Cleaning agent.

## 2. HAZARDS IDENTIFICATION

## Signal word

Danger

## Hazard statements

Causes severe skin burns and eye damage

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1



Appearance Purple liquid

Physical state Liquid

Odor Characteristic

## Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face protection

## Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting

## Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Sodium hydroxide	1310-73-2	1 - 5	*

## 4. FIRST AID MEASURES

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash mouth and nasal passages with water repeatedly. Call a physician immediately.**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.**Ingestion** Rinse mouth. Do NOT induce vomiting. Drink plenty of water or milk immediately. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.**Skin Contact** Wash with soap and water. DO NOT attempt to neutralize with chemical agents. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.**Most important symptoms and effects, both acute and delayed****Symptoms:** Mist and vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract. Contact will cause irritation and redness to exposed areas. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.**Note to physicians** Treat symptomatically. Existing conditions aggravated by exposure: skin disorders, skin allergies, respiratory disorders, eye disorders.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Carbon dioxide (CO2). Water spray (fog). Dry chemical. Chemical foam.**Unsuitable Extinguishing Media** Not determined**Specific hazards arising from the chemical** Keep containers cool with water spray to prevent container rupture due to steam buildup. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment as required.**Environmental precautions:** For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.**Methods for containment:** Confine and absorb into approved absorbent**Methods for cleaning up:** Place in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use personal protection recommended in Section 8. Protect container from physical damage.**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Protect from extreme temperatures.**Incompatible materials:** Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Ceramics.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling 2mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(Vacated) Ceiling 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Eyewash stations.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear approved safety goggles.
<b>Skin and body protection</b>	Neoprene, butyl or nitrile rubber gloves with cuffs. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory protection</b>	Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Property	Values	Remarks • Method	Property	Values
pH	13.5—14		Specific Gravity	1.073
Melting point/freezing point	Not determined	<b>Boiling point</b> 100 °C / 212 °F	<b>Flash point</b> Non-flammable	
Evaporation rate	<1	(water = 1)	<b>Kinematic viscosity</b>	Not Determined
Flammability (solid, gas)	n/a-liquid		<b>Dynamic viscosity</b>	Not Determined
Flammability Limits in Air			<b>Explosive properties</b>	Not Determined
Upper flammability limits	Not applicable		<b>Oxidizing properties</b>	Not Determined
Lower flammability limit	Not applicable		<b>Autoignition temperature</b>	Not Determined
Vapor pressure	17 mm Hg	@ 20 °C	<b>Solubility in other solvents</b>	Not Determined

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	<b>Chemical stability</b>	<b>Possibility of Hazardous Reactions</b>
Not reactive under normal conditions	Stable under recommended storage conditions.	None under normal processing.
<b>Hazardous polymerization</b>		<b>Conditions to avoid</b>
Hazardous polymerization does not occur. Non-hazardous endothermic polymerization may occur in both the liquid and gas phases.		Extreme temperatures.
<b>Incompatible materials</b>	<b>Hazardous Decomposition Products</b>	
Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Ceramics.	Decomposition will not occur if handled and stored properly.	

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure	Component Information	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
<b>Inhalation</b>	Avoid breathing vapors	Sodium hydroxide 1310-73-2	-	1350 mg/kg ( Rabbit )	-
<b>Eye contact</b>	Causes severe eye damage.				
<b>Skin Contact</b>	Causes severe skin burns.				
<b>Ingestion</b>	Do not taste or swallow.				
		<b>Other adverse effects</b>	Not determined	<b>Carcinogenicity</b>	Not classifiable as a carcinogen.

**12. ECOLOGICAL INFORMATION**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal **Other adverse effects** Not determined

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal of wastes/Contaminated packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status:** Sodium hydroxide 1310-73-2 Toxic Corrosive

**14. TRANSPORT INFORMATION**

<b>DOT / IATA / IMDG</b>	Not Regulated

**15. REGULATORY INFORMATION****US Federal Regulations****SARA 311/312 Hazard Categories**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lbs			X

Chemical Name	Hazardous Substances RQs	Cercla/Sara RQ	Reportable Quantity (RQ)
Sodium hydroxide	1000 lbs		RQ1000 lbs final RQ RQ 454 kg final RQ
1310-73-2			

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	X	X	X

**16. OTHER INFORMATION**

NFPA	Health hazards	Flammability	Instability	Special Hazards	HMIS	Health hazards	Flammability	Physical hazards	Personal protection
	Not determined	Not determined	Not determined	Not determined		3	0	0	Not Determined

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**