

# MATERIAL SAFETY DATA SHEET

<p style="text-align: center;">OSHA-Meets 29 CFR 1910.1200 Standards</p> <p style="font-size: 1.2em; font-weight: bold;">Whiting Systems, Inc.</p> <p>Automated Vehicle Wash Systems  Industrial Power Wash Systems</p> <p style="text-align: center;">Est. 1974</p>	<p style="text-align: center;">HMIS HAZARD RATINGS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">HEALTH</td> <td style="width: 33%;">2</td> <td style="width: 33%;">0 = INSIGNIFICANT</td> <td style="width: 33%;">3 = HIGH</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> <td>1 = SLIGHT</td> <td>4 = EXTREME</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> <td>2 = MODERATE</td> <td></td> </tr> </table> <p style="text-align: center;">TRANSPORTATION INFORMATION</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>PROPER SHIPPING NAME</td> <td>Not Regulated</td> <td>REF:</td> <td>Not Applicable</td> </tr> <tr> <td>HAZARD CLASS/PKG GRP</td> <td>Not Regulated</td> <td>LABEL:</td> <td>None Required</td> </tr> <tr> <td>IDENTIFICATION NUMBER</td> <td>None</td> <td></td> <td></td> </tr> </table>	HEALTH	2	0 = INSIGNIFICANT	3 = HIGH	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME	REACTIVITY	0	2 = MODERATE		PROPER SHIPPING NAME	Not Regulated	REF:	Not Applicable	HAZARD CLASS/PKG GRP	Not Regulated	LABEL:	None Required	IDENTIFICATION NUMBER	None		
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## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)	Page 1 of 2
<b>SmartWash ® Formula 20</b>	
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER
<b>Whiting Systems, Inc.</b>	<b>INFOTRAC (800) 535-5053</b>
ADDRESS	TELEPHONE NUMBER FOR INFORMATION
<b>9000 Highway 5 North</b>	<b>(800) 542-9031</b>
CITY, STATE, ZIP CODE	DATE PREPARED:
<b>Alexander, AR 72002</b>	August 30, 2004
	SUPERSEDES:
	February 25, 1999

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S)	CAS #	% (OPTIONAL)	OSHA PEL		ACGIH TWA		SARA	RQ
			PPM	MG/M3	PPM	MG/M3	TITLE III	LBS
Sodium hydroxide ( a,b)	1310-73-2	1 - 5	2C					1000
Sodium metasilicate, pentahydrate	10213-79-3	1 - 5	6					
Sodium phosphate, tribasic (STPP) (a)	7758-29-4	1 - 5	not established					5000
Ethylene glycol monobutyl ether (c,d)	111-76-2	3 - 7	240	20			Yes	

(a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

(c) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(d) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

## SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
<b>INHALATION:</b> Irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise. Not primary route of exposure.	Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.
<b>SKIN CONTACT:</b> Irritation may result from contact; prolonged contact may cause moderate reddening, swelling and possible necrosis.	Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.
<b>EYES:</b> Contact with eyes is painful and irritating and may cause severe irritation, associated with redness and swelling of the conjunctiva.	Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention.
<b>INGESTION:</b> Irritating to digestive tract; may cause gastric distress, stomach pains and vomiting; moderately toxic, may result in red blood cell hemolysis.	Drink large amounts of water, Contact Physician.

CARCINOGENICITY                      NTP? No                      IARC MONOGRAPHS? No                      OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

## SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT	NFPA RATING	FLAMMABLE LIMITS
Non-flammable	None	LEL:                      N/A                      UEL:                      N/A
EXTINGUISHING MEDIA		
Carbon dioxide, water, water fog, dry chemical, chemical foam.		
SPECIAL FIRE FIGHTING PROCEDURES		
Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.		
UNUSUAL FIRE AND EXPLOSION HAZARDS		
None		

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IDENTITY (AS USED ON LABEL AND LIST) *SmartWash @ Formula 20* PAGE 2 of 2  
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**SECTION 5 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes. Wash small spills to sanitary sewer. Confine large spill, soak up with approved absorbent, shovel product into approved container; 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.

**SECTION 6 - HANDLING AND STORAGE**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:  
Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

**SECTION 7- EXPOSURE CONTROLS / PERSONAL PROTECTION**

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

VENTILATION	LOCAL EXHAUST: Required	SPECIAL: To maintain minimum TWA and STEL levels.
	MECHANICAL (GENERAL): Yes	OTHER: Engineering and work controls as required.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.	EYE PROTECTION: Chemical safety goggles.
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OTHER PROTECTIVE CLOTHING OR EQUIPMENT:  
Coveralls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

**SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES**

BOILING POINT: 212° F	SPECIFIC GRAVITY (WATER = 1) 1.038	pH 13.0 - 13.5	SOLUBILITY IN WATER Complete
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C	VAPOR DENSITY (AIR = 1) > 1	EVAPORATION RATE (WATER = 1) < 1	% VOLATILE (BY WEIGHT) 91.30%

APPEARANCE AND ODOR  
Green liquid, characteristic solvent odor

**SECTION 9 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: None
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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.  
None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None
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**SECTION 10 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for alkaline materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Whiting Systems, Inc. provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Whiting Systems, Inc. knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.