

# MATERIAL SAFETY DATA SHEET

<p>OSHA-Meets 29 CFR 1910.1200 Standards</p> <p><b>Whiting Systems, Inc.</b></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 colspan="3">Caustic alkali liquids, n.o.s. (Sodium hydroxide)</td> </tr> <tr> <td>HAZARD CLASS/PKG GRP</td> <td>8 / III</td> <td>REF:</td> <td>49 CFR 173.154, .203, .241</td> </tr> <tr> <td>IDENTIFICATION NUMBER</td> <td>UN 1719</td> <td>LABEL:</td> <td>CORROSIVE</td> </tr> </table>	HEALTH	2	0 = INSIGNIFICANT	3 = HIGH	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME	REACTIVITY	0	2 = MODERATE		PROPER SHIPPING NAME	Caustic alkali liquids, n.o.s. (Sodium hydroxide)			HAZARD CLASS/PKG GRP	8 / III	REF:	49 CFR 173.154, .203, .241	IDENTIFICATION NUMBER	UN 1719	LABEL:	CORROSIVE
HEALTH	2	0 = INSIGNIFICANT	3 = HIGH																						
FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME																						
REACTIVITY	0	2 = MODERATE																							
PROPER SHIPPING NAME	Caustic alkali liquids, n.o.s. (Sodium hydroxide)																								
HAZARD CLASS/PKG GRP	8 / III	REF:	49 CFR 173.154, .203, .241																						
IDENTIFICATION NUMBER	UN 1719	LABEL:	CORROSIVE																						

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) <b>SmartWash® FORMULA 15</b>	Page 1 of 2
MANUFACTURER'S NAME <b>Whiting Systems, Inc.</b>	EMERGENCY TELEPHONE NUMBER <b>INFOTRAC (800) 535-5053</b>
ADDRESS <b>9000 Highway 5 North</b>	TELEPHONE NUMBER FOR INFORMATION <b>(800) 542-9031</b>
CITY, STATE, ZIP CODE <b>Alexander, AR 72002</b>	DATE PREPARED: <b>November 2, 2004</b> SUPERSEDES: <b>February 25, 1999</b>

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS <small>SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S)</small>	CAS #	% <small>(OPTIONAL)</small>	OSHA PEL		ACGIH TWA		SARA	RQ
			PPM	MG/M3	PPM	MG/M3	TITLE III	LBS
Sodium hydroxide ( a,b)	1310-73-2	3 - 7	2 C		2 C			1000
Sodium phosphate, tribasic (STPP) ( a)	7758-29-4	1 - 5	Not established					5000
Sodium metasilicate, pentahydrate	10213-79-3	1 - 5	6					

(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.

## SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
<b>INHALATION:</b> Corrosive, may cause damage to upper respiratory tract, mucous membranes and lung tissue.	Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; seek medical attention.
<b>SKIN:</b> Corrosive; chemical burns may result from contact; destructive to tissue.	Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; seek medical attention.
<b>EYES:</b> Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mists will severely damage the eyes; prolonged contact may cause permanent eye injury, may be followed by blindness.	Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
<b>INGESTION:</b> Corrosive; may cause severe burns and tissue perforation to digestive tract and mucous membranes; may cause gastric distress, stomach pains and vomiting.	Drink large quantities of water or milk; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.

CARCINOGENICITY NPT? 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 <b>Non-flammable</b>	NFPA RATING <b>None</b>	FLAMMABLE LIMITS LEL: <b>N/A</b> UEL: <b>N/A</b>
EXTINGUISHING MEDIA <b>Carbon dioxide, water, water fog, dry chemical, chemical foam.</b>		
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. CAUTION - material is corrosive.		
UNUSUAL FIRE AND EXPLOSION HAZARDS: <b>None</b>		

**MATERIAL SAFETY DATA SHEET**

IDENTITY (AS USED ON LABEL AND LIST) <i>SmartWash</i> ® FORMULA 15	PAGE 2 of 2 Date: November 2, 2004
---	---------------------------------------

**SECTION 5 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
**CAUTION - CORROSIVE.** Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to 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. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. **CAUTION - material is corrosive.** 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.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT  
 Coveralls, apron, or other equipment should be worn to prevent 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**

BOLING POINT: 212 F	SPECIFIC GRAVITY (WATER = 1) 1.065	pH 13.5 -14	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) 91.2

APPEARANCE AND ODOR  
 Red liquid, characteristic detergent odor

**SECTION 9 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE:                      STABLE: XXX	CONDITIONS TO AVOID: Extreme Temperatures
---	---

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalis.

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
---	---------------------------

**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.